LG

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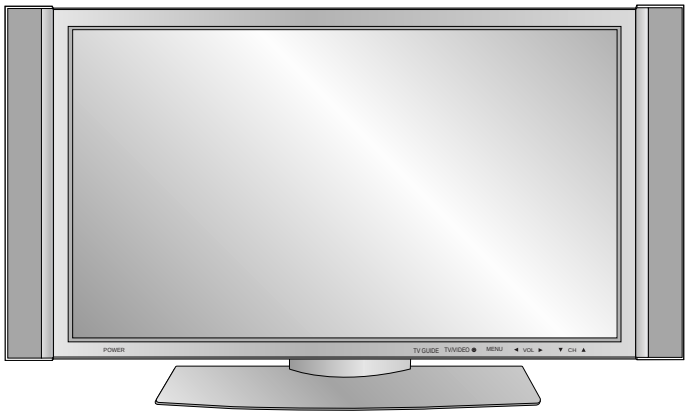
PLASMA TV
SERVICE MANUAL

CHASSIS : AF-044P

MODEL : DU-42PY10X DU-42PY10XH

CAUTION
BEFORE SERVICING THE CHASSIS,
READ THE SAFETY PRECAUTIONS IN THIS MANUAL.



SAFETY PRECAUTIONS

IMPORTANT SAFETY NOTICE

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These parts are identified by ⚠ in the Schematic Diagram and Replacement Parts List.
It is essential that these special safety parts should be replaced with the same components as recommended in this manual to prevent X-RADIATION, Shock, Fire, or other Hazards.
Do not modify the original design without permission of manufacturer.

General Guidance

An **Isolation Transformer should always be used** during the servicing of a receiver whose chassis is not isolated from the AC power line. Use a transformer of adequate power rating as this protects the technician from accidents resulting in personal injury from electrical shocks.

It will also protect the receiver and it's components from being damaged by accidental shorts of the circuitary that may be inadvertently introduced during the service operation.

If any fuse (or Fusible Resistor) in this monitor is blown, replace it with the same specified type.

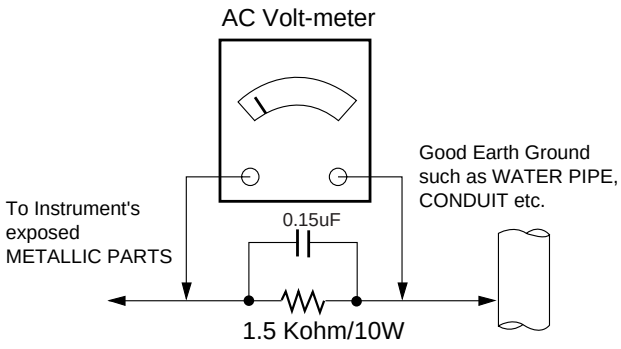
When replacing a high wattage resistor (Oxide Metal Film Resistor, over 1W), keep the resistor 10mm away from PCB.

Keep wires away from high voltage or high temperature parts.

Leakage Current Cold Check(Antenna Cold Check)
With the instrument AC plug removed from AC source, connect an electrical jumper across the two AC plug prongs. Place the AC switch in the on positioin, connect one lead of ohm-meter to the AC plug prongs tied together and touch other ohm-meter lead in turn to each exposed metallic parts such as antenna terminals, phone jacks, etc.
If the exposed metallic part has a return path to the chassis, the measured resistance should be between 1MΩ and 5.2MΩ.
When the exposed metal has no return path to the chassis the reading must be infinite.
An other abnormality exists that must be corrected before the receiver is returned to the customer.

Leakage Current Hot Check (See below Figure)
Plug the AC cord directly into the AC outlet.
Do not use a line Isolation Transformer during this check.
Connect 1.5K/10watt resistor in parallel with a 0.15uF capacitor between a known good earth ground (Water Pipe, Conduit, etc.) and the exposed metallic parts.
Measure the AC voltage across the resistor using AC voltmeter with 1000 ohms/volt or more sensitivity.
Reverse plug the AC cord into the AC outlet and repeat AC voltage measurements for each esposed metallic part. Any voltage measured must not exceed 0.75 volt RMS which is corresponds to 0.5mA.
In case any measurement is out of the limits sepcified, there is possibility of shock hazard and the set must be checked and repaired before it is returned to the customer.

Leakage Current Hot Check circuit



CANADA: LG Electronics Canada, Inc. 550 Matheson
Boulevard East Mississauga, Ontario L4Z 4G3

USA : LG Customer Interactive Center
P.O.Box 240007, 201 James Record Road Huntsville,
AL 35824
Digital TV Hotline 1-800-243-0000

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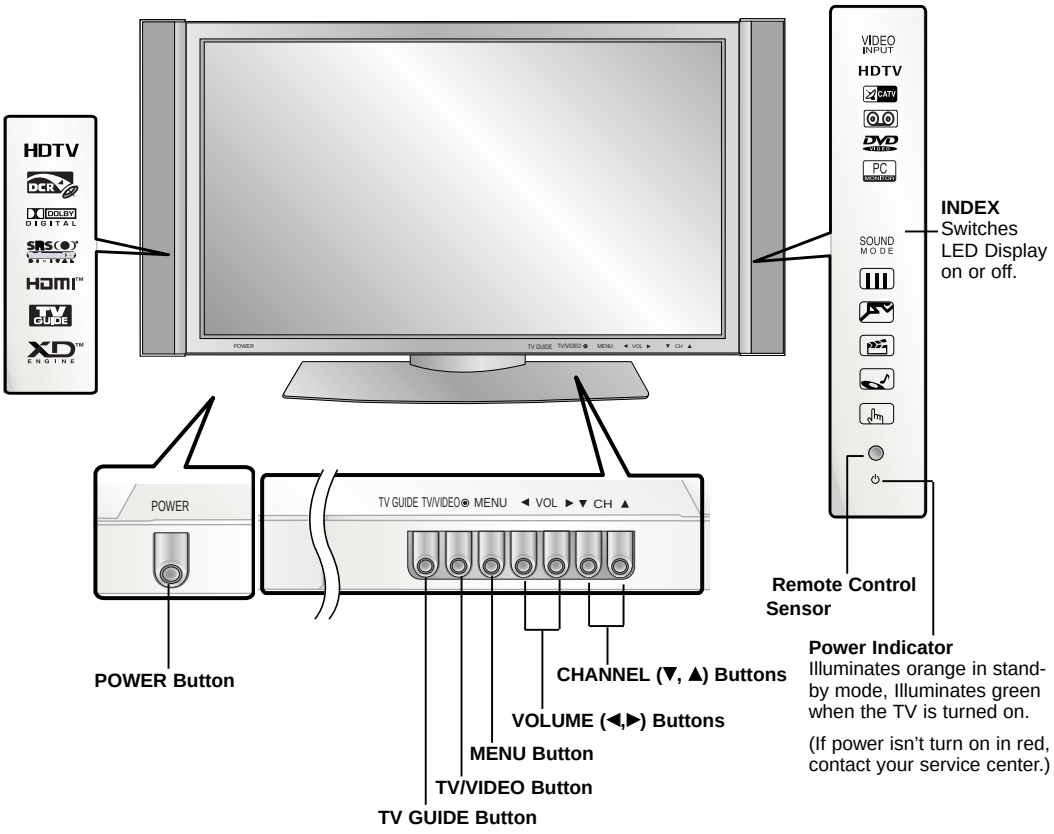
Controls

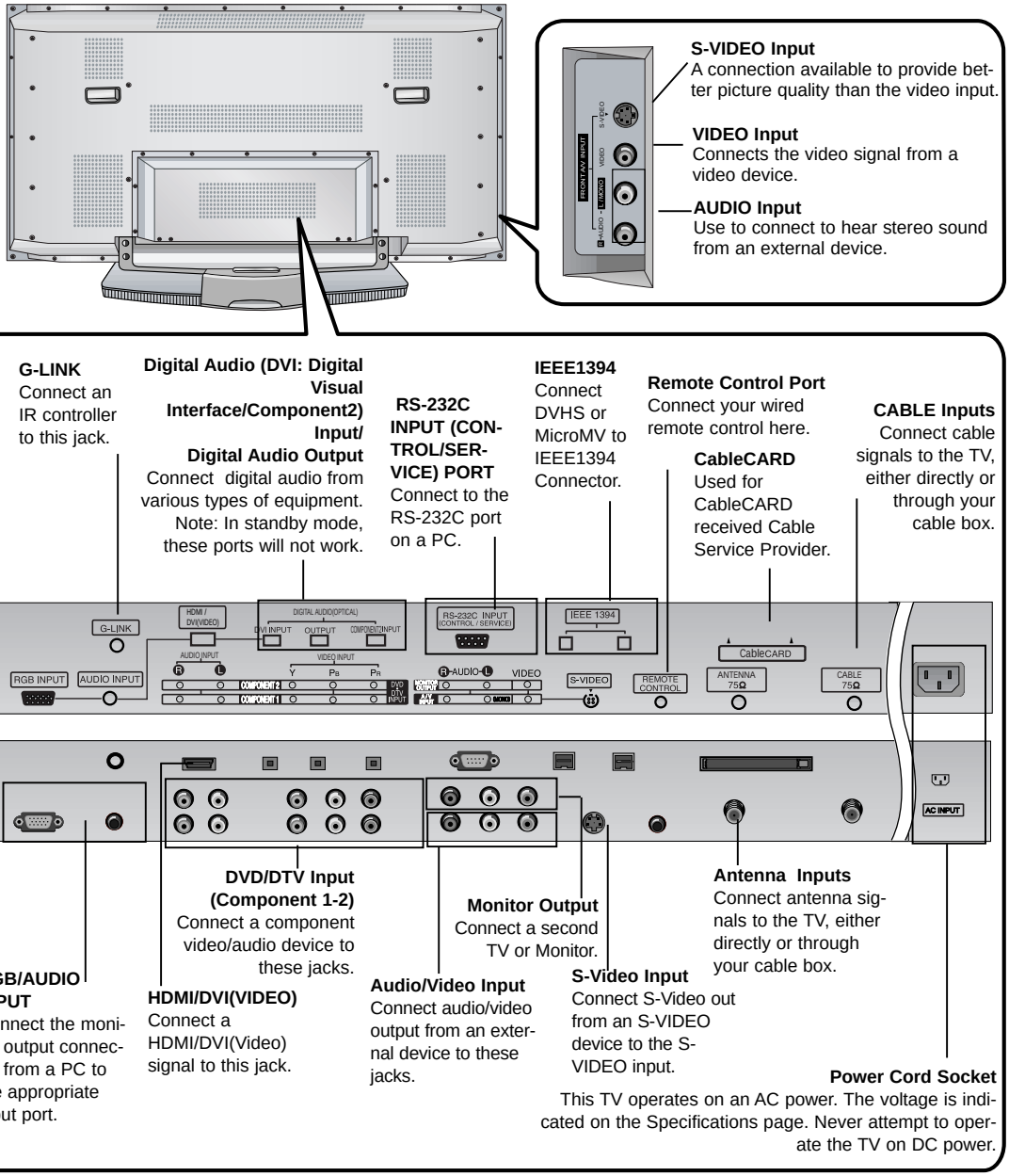
- This is a simplified representation of front panel.
  Here shown may be somewhat different from your TV.

Front Panel Controls



Connection Options

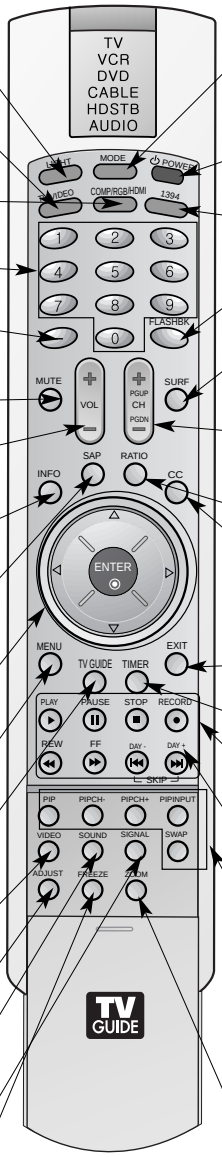
Back Connection Panel



DESCRIPTION OF CONTROLS

Remote Control Key Functions

- When using the remote control, aim it at the remote control sensor on the TV.



LIGHT
Illuminates the remote control buttons.

TV/VIDEO
Selects: DTV, Analog, Video, Front Video, Component 1-2, RGB-DTV (or RGB-PC), HDMI/DVI input sources.

COMP/RGB/HDMI
Selects: Component 1-2, RGB-DTV (or RGB-PC), HDMI/DVI input sources.

NUMBER buttons

DASH
Used to enter a program number for multiple program channels such as 2-1,2-2,etc.

MUTE
Switches the sound on or off.

VOLUME UP/DOWN
Increases/decreases the sound level.

INFO
When you watch the TV, displays information on top of the screen. Not available in Component 1-2, RGB and HDMI/DVI mode.

SAP
Selects MTS sound: Mono, Stereo, and SAP in Analog mode. Change the audio language in DTV mode.

THUMBSTICK (Up/Down/Left/Right/ENTER)
Allows you to navigate the on-screen menus and adjust the system settings to your preference.

MENU
Brings up the main menu to the screen.

TV GUIDE
Brings up the TV Guide On Screen system to the screen.

VIDEO
Adjusts the factory preset picture according to the room.

ADJUST
Adjusts screen position, clock, and phase in PC mode.

SOUND
Selects the sound appropriate for the program's character.

SIGNAL
Displays the digital signal strength.

FREEZE
Freezes the currently-viewed picture. Main picture is frozen in PIP/Twin picture mode.

MODE
Selects the remote operating mode: TV, VCR, DVD, CABLE, HDSTB or AUDIO. Select other operating modes, for the remote to operate external devices.

POWER
Turns your TV or any other programmed equipment on or off, depending on mode.

1394

FLASHBK
Tunes to the last channel viewed.

SURF
Use to scroll the Surf channel.

CHANNEL UP/DOWN
Selects available channels found with EZ scan.

PAGE UP/PAGE DOWN
Moves from one full set of screen information to the next one.

RATIO
Changes the aspect ratio.

CC
Select a closed caption:
Off, CC1~4, Text1~4.

EXIT
Clears all on-screen displays and returns to TV viewing from any menu.

TIMER
Lets you select the amount of time before your TV turns itself off automatically.

VCR/DVD BUTTONS
Control some video cassette recorders or DVD player ("RECORD" button is not available for DVD player).

DAY+/DAY-
Moves forward of backwards in 24 hour increments in the Listings Grid.

PIP
Switches between PIP, POP (Picture-out-of-Picture) and Twin picture modes.

PIPCH-/PIPCH+
Changes to next higher/lower PIP channel.

PIP INPUT
Selects the input source for the sub picture.

SWAP
Exchanges the main/sub images in PIP/Twin picture mode.

ZOOM
Enlarges the main picture size.

ADJUSTMENT INSTRUCTIONS

1. Application Object

These instructions are applied to all of the PDP TV, AF-044P.

2. Notes

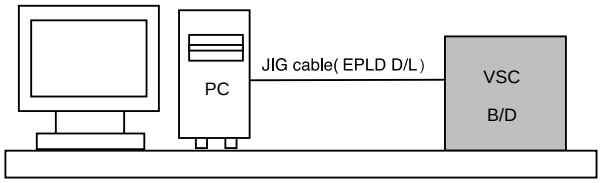
(1) Because this is not a hot chassis, it is not necessary to use an isolation transformer. However, the use of isolation transformer will help protect test equipment.
(2) Adjustments must be done in the correct order.
(3) The adjustments must be performed in the circumstance of 25±5°C of temperature and 65±10% of relative humidity if there is no specific designation.
(4) The input voltage of the receiver be must kept 110V, 60Hz when adjusting.
(5) The receiver must be operational for about 15 minutes prior to the adjustments.

1) After receiving 100% white pattern, the receiver must be operated prior to adjustment. (Or 9. White Pattern condition in EZ - Adjust)
2) Enter into White Pattern
- Enter the Ez - Adjust by pressing ADJ Key on Service Remote Control (S R/C).
- Select the 9. White Pattern using CH +/- Key and press the Enter(■) Key.
Display the 100% Full White Pattern.

※ Set is activated HEAT-RUN without signal generator in this mode.

If you turn on a still screen more than 20 minutes (Especially Digital pattern(13 CH), Cross Hatch Pattern), an afterimage may occur in the black level part of the screen.

3. EPLD Download



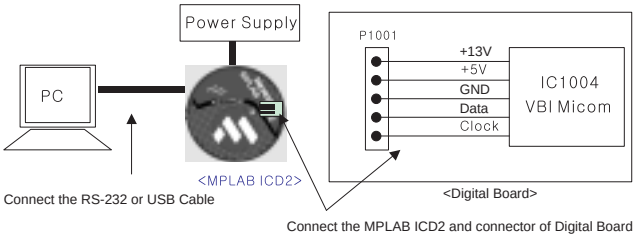
<Fig 1> Connection Diagram of EPLD Download

(1) Test Equipment: PC, Jig for download
(2) Connect the power of VSC B/D.
(3) Execute download program(iMPACK) of PC.
(4) After executing the hot key on the Programmer, click icon
(5) End after confirming

4. Gemstar VBI Micom Download

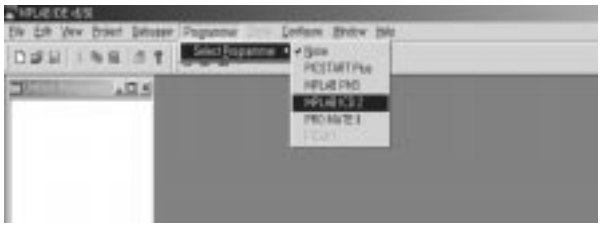
4-1. Preparation for Adjustment

(1) As shown below, connect the MPLAB ICD2 equipment, PC and Digital Connector.
(2) Turn on the MPLAB ICD2 POWER Supply.
(3) After turn on the PC and MONITOR, select the 'MPLAB IDE' from the screen.

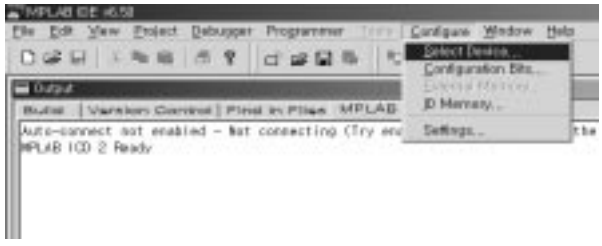


4-2. Adjustment Sequence

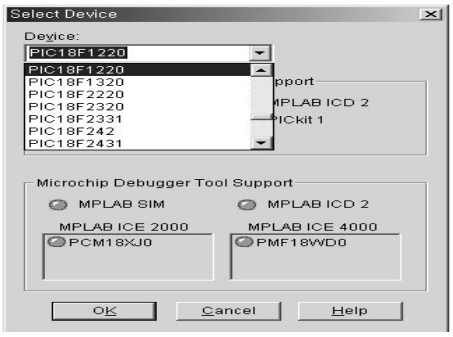
(1) When the program is executed, select the MPLAB ICD2 from Programmer -> Select Programmer .



(2) Select "Configure -> Select Device".



(3) When the "Select Device" window appears, select the PIC18F1220 from "Device" and press OK.

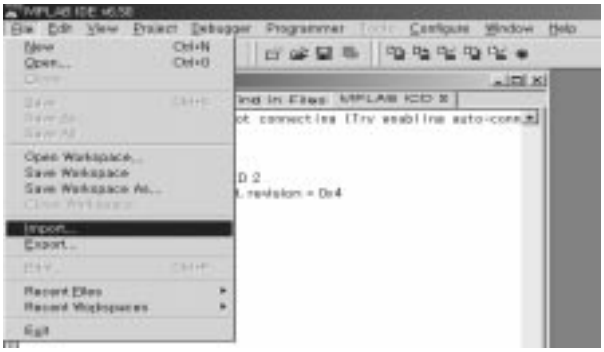


(4) Select "Programmer -> Connect".

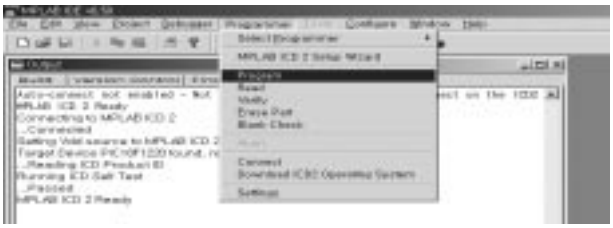
When connected with the Micom, the display message on the Output window appears as below.

Connecting to MPLAB ICD 2
...Connected
Setting Vdd source to MPLAB ICD 2
Target Device PIC18F1220 found, revision = 0x4
...Reading ICD Product ID
Running ICD Self Test
...Passed
MPLAB ICD 2 Ready

(5) Select "File -> Import", select the Work HEX file and open.

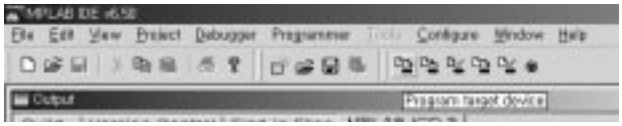


(6) Select "Programmer -> Program".



(7) Download is executed and about 5 seconds later, the "Programming succeeded" message is displayed on the Output window and the Download process is ended.

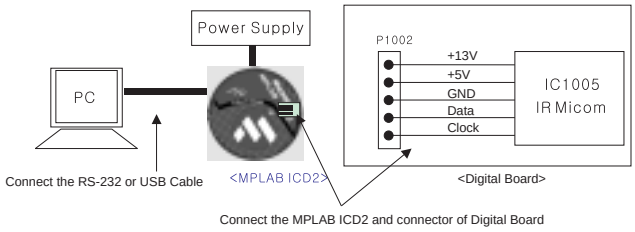
(8) The execution of process (6) is convenient when using the short-cut icon.



5. Gemstar IR Micom Download

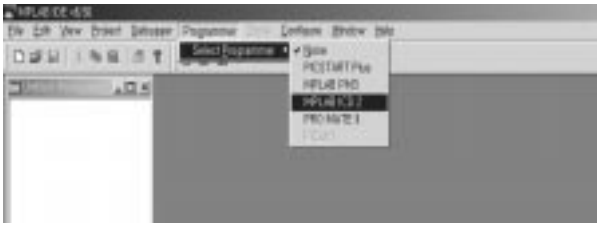
5-1. Preparation for Adjustment

(1) As shown below, connect the MPLAB ICD2 equipment, PC and Digital Connector.
(2) Turn on the MPLAB ICD2 POWER Supply.
(3) After turn on the PC and MONITOR, select the 'MPLAB IDE' from the screen.

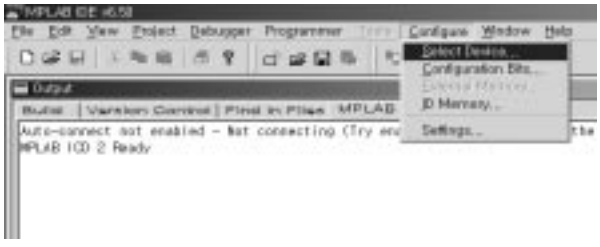


5-2. Adjustment Sequence

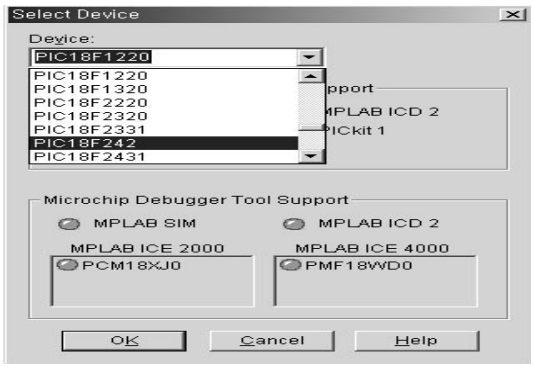
(1) When the program is executed, select the MPLAB ICD2 from "Programmer -> Select Programmer" .



(2) Select "Configure -> Select Device".



(3) When the "Select Device" window appears, select the PIC18F242 from "Device" and press OK.

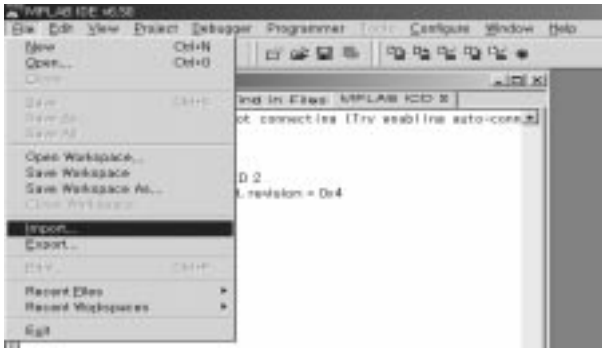


(4) Select "Programmer -> Connect".

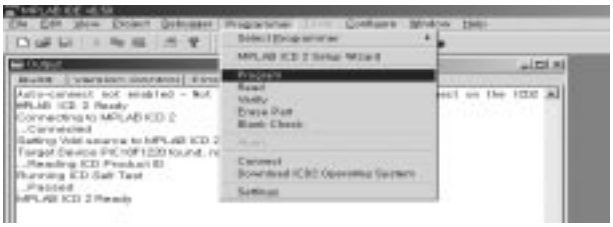
When connect with the Micom, the display message on the Output window appears as below.

Connecting to MPLAB ICD 2
...Connected
Setting Vdd source to MPLAB ICD 2
Target Device PIC18F242 found, revision = 0x7
...Reading ICD Product ID
Running ICD Self Test
...Passed
MPLAB ICD 2 Ready

(5) Select "File -> Import", select the Work HEX file and open.



(6) Select "Programmer -> Program".



(7) Download is executed and about 3 seconds later, the "Programming succeeded" message is displayed on the Output window and the Download process is ended.

(8) The execution of process (6) is convenient when using the short-cut icon.

6. POD Certificate Download & IEEE1394(DTCP) Download

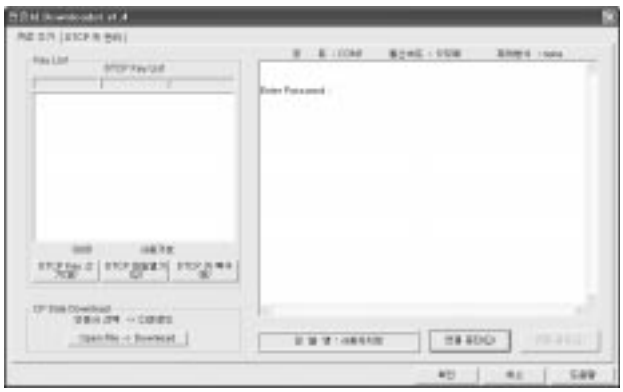
6-1. Preparation for Adjustment

(1) Connect the MEMORY JIG and PC.
(2) Turn on the JIG MAIN POWER SWITCH.
(3) After turn on the PC and MONITOR, execute the 'Certificate Downloader v1.4' from the screen.

6-2. Adjustment Sequence

(1) After open the 'Certificate Downloader v1.4', enter Connection set and set the as same below.
The port settings are determined by each PC's setup.

(2) Select ‘Connection’ and SET connected to RS-232C.
(3) After clicking "Enter", confirm that "Enter Password:" appears.



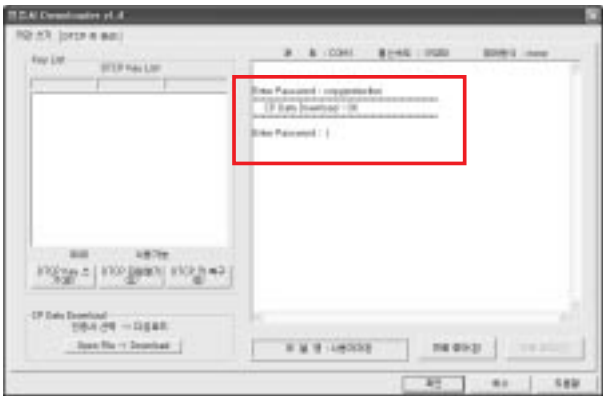
(4) Click the "OpenFile - Download" button from CP Data Download, ‘select the Private Key’ appears and click ENTER.

(5) After clicking ENTER, the ‘opens Private key' window appears and select the Private key applied to the SET.
The Private Key file name is on the Label of the Digital Board.

(6) When the Dialog window appears, click OK and the write work will begin.

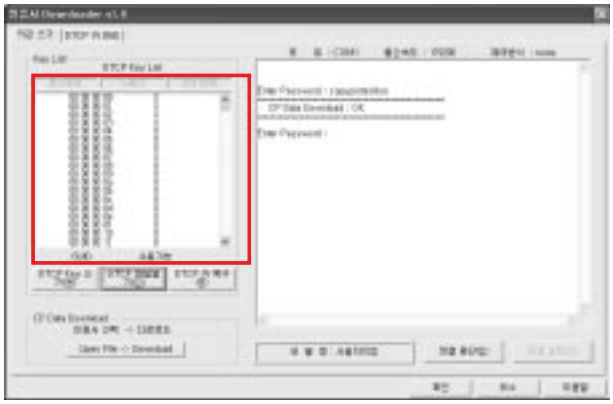
(7) When completed, click ‘CP Data Download: OK’

※ When ‘CP Data Download: OK’ does not appear, certificate has not Download correctly.
SET is rebooted and certificate Download work must be repeated.



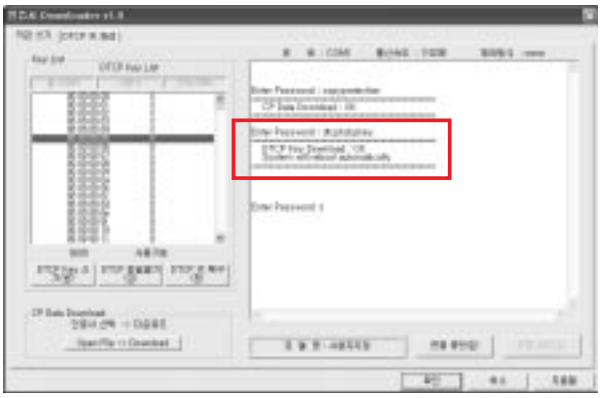
(8) Now, you may begin IEEE1394 (DTCP) Download work.
Select the “DTCP.dat” file by pressing the ‘DTCP File Open’ button.

(9) After opening the 'DTCP.dat' file, confirm the key list in the DTCP Key List window.



(10) Select the desired item of DTCP key List.
When pressing 'DTCP key writing' button, the Progress window will appear.

(11) When completed, "DTCP key Download: OK" will display in the Terminal window and the SET will reboot automatically.



※ When process (11) malfunctions, it is not Download.
DTCP Download process start again from (8).

7. Gemstar Operation Confirmation

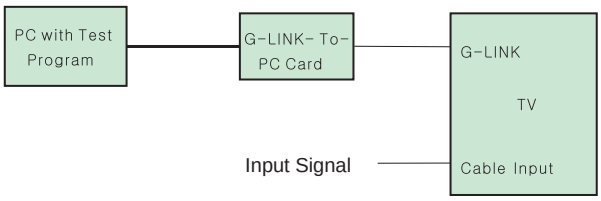
7-1. Required Test Equipment

(1) PC with Factory Test Program
(2) G-LINK-To-PC Card (Serial GLINK(CN1202))
(3) VBI Inserter (Norpak TES3) - Guide Data Discharge Equipment

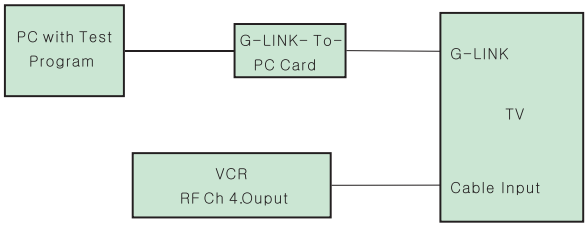
※ In case of without the VBI Inserter(TES3), a VCR may be used.

7-2. Preparation for Adjustments

(1) In case of with VBI Inserter(TES3): Signal uses Cable input and set as below.



(2) In case of without VBI Inserter(TES3): VCR uses Cable input and set as below.



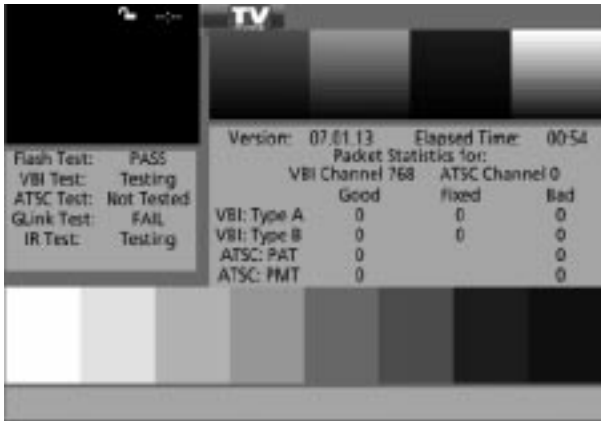
※ Factory Test S/W must be set to "GlinkTo PC Card" ON.

7-3. Adjustment Confirmation Work

(1) Turn on the TV and run Factory Test Program of PC.

※ Program only needs to run once, regardless of set quantity.

(2) Enter the EZ adjust menu by pressing Adjust on the Service Remote Control (S R/C).
(3) Go to number 1 Gemstar and press Enter.
(4) TV set screen will appear as shown.



(5) Confrim that VBI Test, Glink Test and IR Test PASS from the screen.

8. Cable Operation Confirmation

(1) Confirm that the Cable Card is inserted in the slot.
(2) Enter the EZ adjust menu by pressing Adjust on the Service Remote Control (S R/C).
(3) Go to number 2 Cable Check and press the Right key (►) .
(4) Confirm items below..

Name	Normal	Defective
Descrambler Check	OK	Not OK
CableCARD	CableCARD™ is inserted.	CableCARD™ is removed.
OOB Path	OK(Lock)	Not OK(Unlock)
FDC_SNR	OK(20dB above)	Not OK(20dB under)
Video Signal	Normal Screen	Black Screen (No Picture)

ADJUSTMENT INSTRUCTIONS

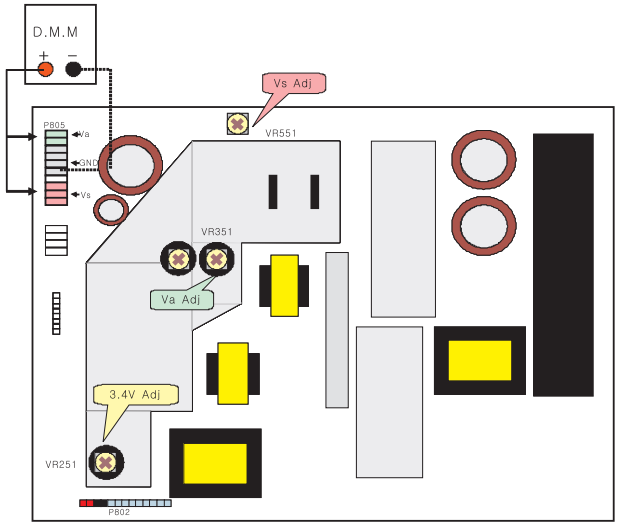
Each PCB Assy must be checked by Check JIG Set before assembly. (Especially, be careful Power PCB Assy which can cause Damage to the PDP Module.)

9. POWER PCB Assy Voltage Adjustment (Va, Vs Voltage Adjustment)

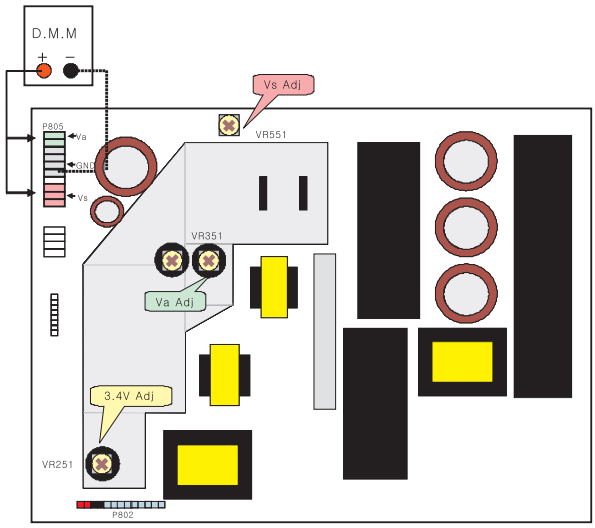
9-1. Test Equipment : D.M.M 1EA

9-2. Connection Diagram for Measuring

Refer to Fig 1.



<Fig. 1-1> Connection Diagram of Power Adjustment for Measuring (Power Board): 42”



<Fig. 1-2> Connection Diagram of Power Adjustment for Measuring (Power Board): 50”

9-3. Adjustment (42”, 50”)

(1) Va Adjustment

1) Connect + terminal of D.M.M to Va pin of P805 and connect – terminal to GND pin of P805.
2) Adjust VR351 voltage to match that of the label on the Top/Right of the panel. (Deviation : ±0.5V)

(2) Vs Adjustment

1) Connect + terminal of D.M.M to Vs pin of P805 and connect – terminal to GND pin of P805.
2) Adjust VR551 voltage to match that of the label on the Top/Right of the panel. (Deviation : ±0.5V)

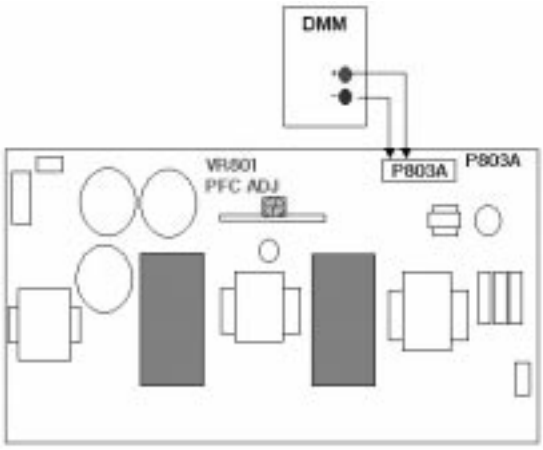
(3) 3.4V Adjustment

1) Connect + terminal of D.M.M to 3.4V pin of P802 and connect – terminal to GND pin of P805.
2) Adjust VR251 voltage to be 3.4V. (Deviation : ±0.1V)

9-4. Adjustment(60”)

(1) PFC Adjustment

1) After receiving 100% White Pattern, HEAT RUN.
2) Connect + terminal of DMM to PFC + terminal of P803A,connect - terminal of DMM to GND of P803A.
3) Adjust VR801 until voltage reading is 380V(±1V).



<Fig. 1-3> Connection Diagram of Power Adjustment for Measuring (PFC Board): 60”

(2) Va Adjustment

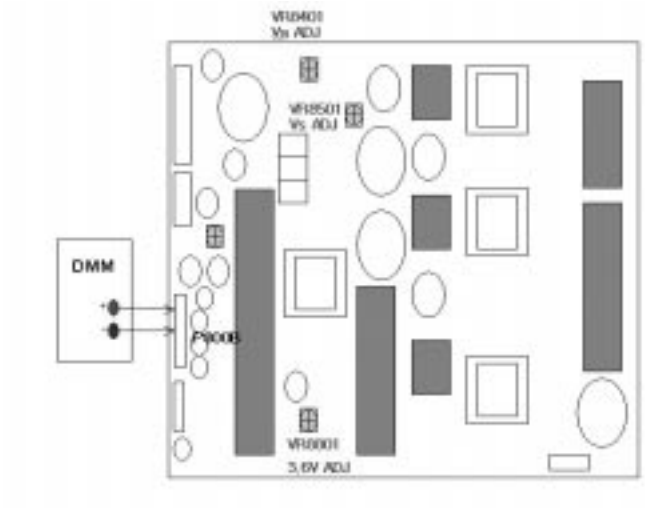
1) Connect + terminal of D.M.M to Va pin of P8011 and connect – terminal to GND pin of P8011.
2) Adjust VR8401 voltage to match that of the label on the Top/Right of the panel.(Deviation : ±0.5V)

(3) Vs Adjustment

1) Connect + terminal of D.M.M to Vs pin of P8011 and connect – terminal to GND pin of P8011.
2) Adjust VR8501 voltage to match that of the label on the Top/Right of the panel. (Deviation : ±0.5V)

(4) 3.4V Adjustment

1) Connect + terminal of D.M.M to 3.4V pin of P800B and connect – terminal to GND pin of P800B.
2) Adjust VR8801 voltage to be 3.4V. (Deviation : ±0.1V)



<Fig. 1-4> Connection Diagram of Power Adjustment for Measuring (Power Board): 60”

10. EDID(The Extended Display Identification Data)/DDC (Display Data Channel) download

This is the function that enables “Plug and Play".

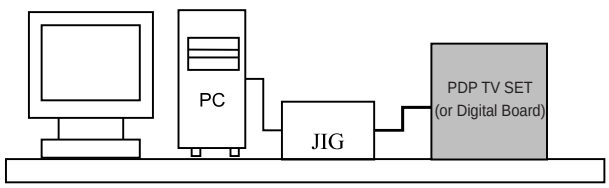
10-1. HDMI EDID Data Input

(1) Required Test Equipment

1) Jig for adjusting PC, DDC. (PC serial to D-sub. Connection equipment)
2) S/W for writing DDC(EDID data write & read)
3) D-Sub cable
4) Jig for HDMI Cable connection

(2) Preparation for Adjustments & Setting of Device

1) Set devices as below and turn on the PC and JIG.
2) Open S/W for writing DDC (EDID data write & read). (operated in DOS mode)



10-2. EDID DATA(50”, 60”)

• EDID for HDMI (DDC (Display Data Channel) Data)
EDID table =

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	00	FF	FF	FF	FF	FF	FF	00	1E	6D	01	00	01	01	01	01
10	00	0E	01	03	80	73	41	96	0A	CF	74	A3	57	4C	B0	23
20	09	48	4C	2F	CE	00	31	40	45	40	61	40	01	01	01	01
30	01	01	01	01	01	01	01	1D	00	72	51	D0	1E	20	6E	28
40	55	00	C4	8E	21	00	00	1E	01	1D	80	18	71	1C	16	20
50	58	2C	25	00	C4	8E	21	00	00	9E	00	00	00	FC	00	4C
60	47	20	54	56	20	20	20	20	20	20	20	0A	00	00	00	FD
70	00	3B	3C	1F	2D	08	00	0A	20	20	20	20	20	20	01	85

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	02	03	13	F2	44	84	85	03	02	23	15	07	50	65	03	0C
10	00	10	00	8C	0A	D0	8A	20	E0	2D	10	10	3E	96	00	C4
20	8E	21	00	00	18	8C	0A	D0	8A	20	E0	2D	10	10	3E	96
30	00	13	8E	21	00	00	18	00	00	00	00	00	00	00	00	00
40	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
50	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
60	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
70	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	0A

• EDID DATA for RGB
EDID table =

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
00	00	FF	FF	FF	FF	FF	FF	00	1E	6D	01	01	01	01	01	01
10	03	0D	01	03	08	6E	3E	96	08	CF	72	A3	57	4C	B0	23
20	09	45	5D	EF	CE	00	31	D9	31	59	45	59	01	01	01	01
30	01	01	01	01	01	40	C3	1E	00	20	41	00	20	30	10	60
40	13	00	4C	6C	42	00	00	18	00	00	00	FC	00	4C	47	20
50	54	56	0A	20	20	20	20	20	20	20	00	00	00	FD	00	30
60	4C	1E	64	0F	00	0A	20	20	20	20	20	20	00	00	00	FC
70	00	44	55	2D	35	30	50	59	31	30	0A	20	20	20	00	94

10-3. EDID DATA(42”)

• EDID for HDMI (DDC (Display Data Channel) Data)
EDID table =

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	00	FF	FF	FF	FF	FF	FF	00	1E	6D	01	00	01	01	01	01
10	00	0E	01	03	80	5C	34	96	0A	CF	74	A3	57	4C	B0	23
20	09	48	4C	2F	CE	00	31	40	45	40	61	40	01	01	01	01
30	01	01	01	01	01	01	01	1D	00	72	51	D0	1E	20	6E	28
40	55	00	C4	8E	21	00	00	1E	01	1D	80	18	71	1C	16	20
50	58	2C	25	00	C4	8E	21	00	00	9E	00	00	00	FC	00	4C
60	47	20	54	56	20	20	20	20	20	20	20	0A	00	00	00	FD
70	00	3B	3C	1F	2D	08	00	0A	20	20	20	20	20	20	01	A9

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	02	03	13	F2	44	84	85	03	02	23	15	07	50	65	03	0C
10	00	10	00	8C	0A	D0	8A	20	E0	2D	10	10	3E	96	00	C4
20	8E	21	00	00	18	8C	0A	D0	8A	20	E0	2D	10	10	3E	96
30	00	13	8E	21	00	00	18	00	00	00	FC	00	00	FC	00	44
40	55	2D	34	32	50	59	31	30	58	0A	20	20	20	00	00	00
50	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
60	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
70	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	0A

- EDID DATA for RGB

EDID table =

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
00	00	FF	FF	FF	FF	FF	FF	00	1E	6D	01	01	01	01	01	01
10	06	0D	01	03	18	5C	34	96	08	CF	72	A3	57	4C	B0	23
20	09	45	5D	EF	CE	00	31	D9	31	59	45	59	01	01	01	01
30	01	01	01	01	01	40	C3	1E	00	20	41	00	20	30	10	60
40	13	00	98	08	32	00	00	18	00	00	00	FC	00	4C	47	20
50	54	56	0A	20	20	20	20	20	20	20	00	00	00	FD	00	30
60	4C	1E	64	0F	00	0A	20	20	20	20	20	20	00	00	00	FC
70	00	44	55	2D	34	32	50	59	31	30	58	0A	20	20	00	C5

11. AD9883A-Set Adjustment

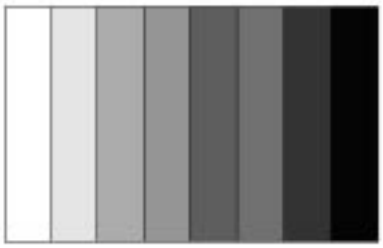
11-1. Synopsis

AD9883A-Set adjustment to set the black level and the Gain of optimum with an automatic movement from the analog => digital converter.

11-2. Test Equipment

Service R/C, 801GF(802B, 802F, 802R) or MSPG925FA Pattern Generator

(720P The Vertical 100% Color Bar Pattern output will be possible and the output level will accurately have to be revised with 0.7±0.1Vp-p)



<Fig. 3> Adjustment Pattern : 720P Vertical Color Bar

11-3. Adjustment

(1) Select Component1 or Component2 as the input with 100% Vertical Color Bar Pattern in 720p Mode and select 'Normal' in screen.

(2) After receiving signal for at least 1 second, press the ADJ Key on the Service R/C to enter the 'Ez - Adjust' and select the '1. AD9883A-Set'.
Pressing the + Key to adjust with automatic movement.

(3) When the adjustment is over, 'AD9883 - Set' is displayed. If the adjustment has errors, 'AD9883 set error' is displayed.

(4) Readjust after confirming the case Pattern or adjustment condition where the adjustment errors.

(5) After adjustment is complete, exit the adjustment mode by pressing the ADJ KEY.

12. Adjustment of White Balance

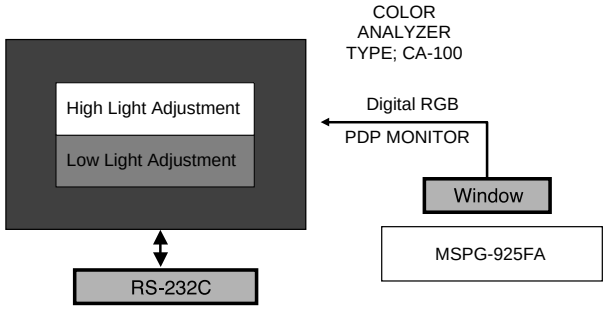
12-1. Required Equipment

(1) Color analyzer (CA-100 or similar product)

(2) Automatic adjustor (with automatic adjustment hour necessity and the RS-232C communication being possible)

(3) AV Pattern Generator

12-2. Connection Diagram of Equipment for Measuring (Automatic Adjustment)



<Fig. 4> Connection Diagram of Automatic Adjustment

※. **RS-232C Command** (Automatic Adjustment)

	RS-232C Command [CMD ID DATA]	MIN	CENTER (DEFAULT)	MAX
R Gain	ja oo XX	00	7f	ff
G Gain	jb oo XX	00	7f(Fix.)	ff
B Gain	jc oo XX	00	7f	ff
R Cut	lj oo XX	00	3f(Fix.)	7f
G Cut	lk oo XX	00	3f	7f
B Cut	ll oo XX	00	3f	7f

12-3. Adjustment of White Balance

- Operate the Zero-calibration of the CA-100, then attach sensor to PDP module surface when you adjust.
- Manual adjustment is also possible by the following sequence.

(1) Enter 'Ez - Adjust' by pressing ADJ KEY on the Service Remote Control.
(2) Select "7. WHITE PATTERN" using CH +/- Key and HEAT RUN at least 30 minutes by pressing the ENTER Key.
(3) Receive the Window pattern signal from Digital Pattern Generator. (AV Input: connect the 'HDMI')
(4) After attaching sensor to center of screen, select '3. White-Balance' of 'Ez - Adjust' by pressing the ADJ KEY on the Service R/C. Then enter adjustment mode by pressing the Right KEY (▶) .
(5) Adjust the Hight Light using R Gain/B Gain and adjust the Low Light using G Cut/B Cut.
(6) Adjust using Volume +/- KEY.

(R-Gain: 127 R-Cut: 63 Fix.)

High Level: 150gray
Low Level: 60gray

X; 0.285±0.003
Y; 0.285±0.003

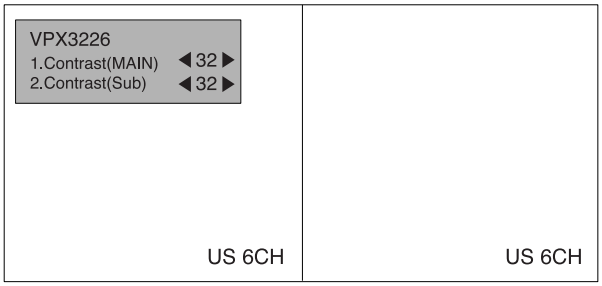
Color temperature: 9,800°K±500°K

(7) After adjustment is complete, move to Ez - Adjust screen by pressing the ENTER(■) KEY. Then exit the adjustment mode by press ADJ KEY.

13. Main/Sub Contrast Adjustment

Main/Sub contrast adjustment reduces the contrast difference of Main/Sub screen in PIP/POP/SPLIT Screen.

(1) After receiving signal for at least 1 second, press the ADJ KEY on the Service R/C and enter the 'Ez - Adjust' then select '2. VPX3226'.
Enter adjustment mode by pressing the Right KEY(▶).
(2) When entering adjustment mode, the TV image becomes 6CH SPLIT Screen with automatic movement as in below window.



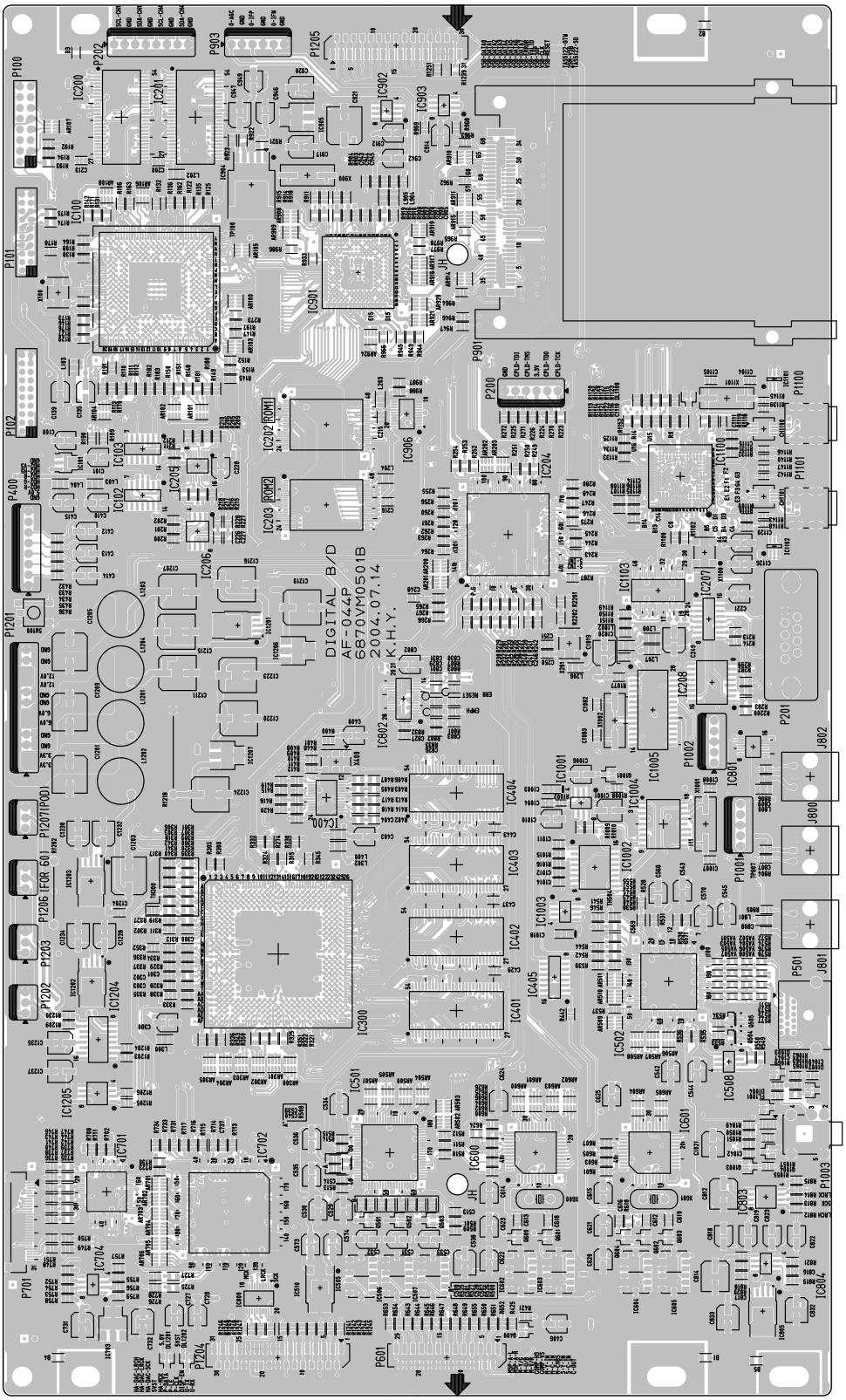
(3) After adjusting the 1.Contrast (Main) first to see the most clear outline of "US 6CH" letter on left Main screen, 2.Contrast (Sub) adjust to be same the contrast of right Sub screen and contrast of left Main screen.
This time adjust using the volume +/- Key.
(4) After adjustment is complete, exit the adjustment mode by press ADJ KEY.

14. DVCO Adjustment

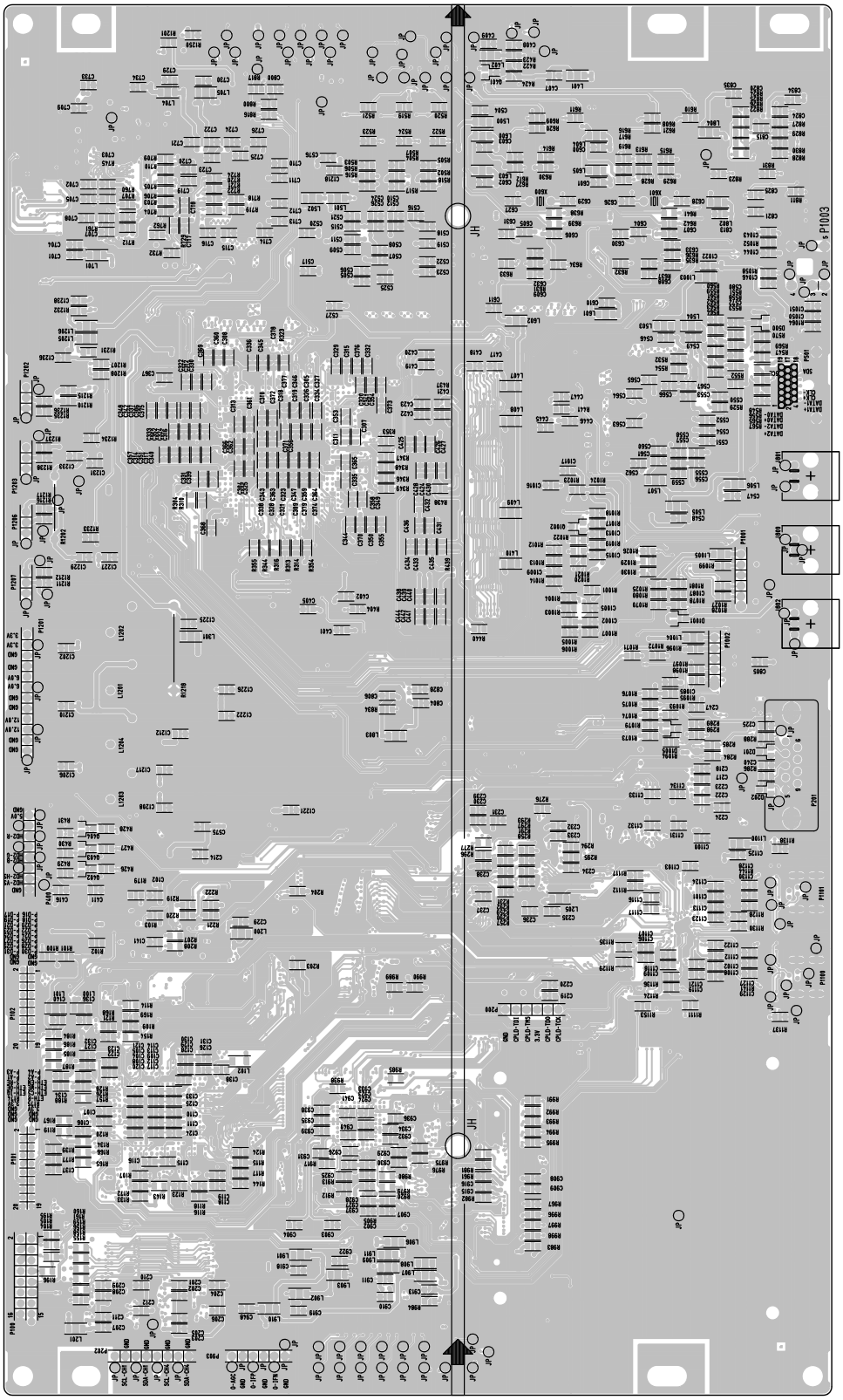
(1) After adjusting Main/Sub Contrast, receive a Digital Pattern.
(2) Select '4. DVCO-Set' by pressing the ADJ KEY on the Service R/C and adjust by pressing the Right KEY (▶) .
(3) When adjustment is complete, "DVCO-Set" will appear. Exit the adjustment mode menu by pressing ADJ key.

PRINTED CIRCUIT BOARD

MAIN DIGITAL(TOP)

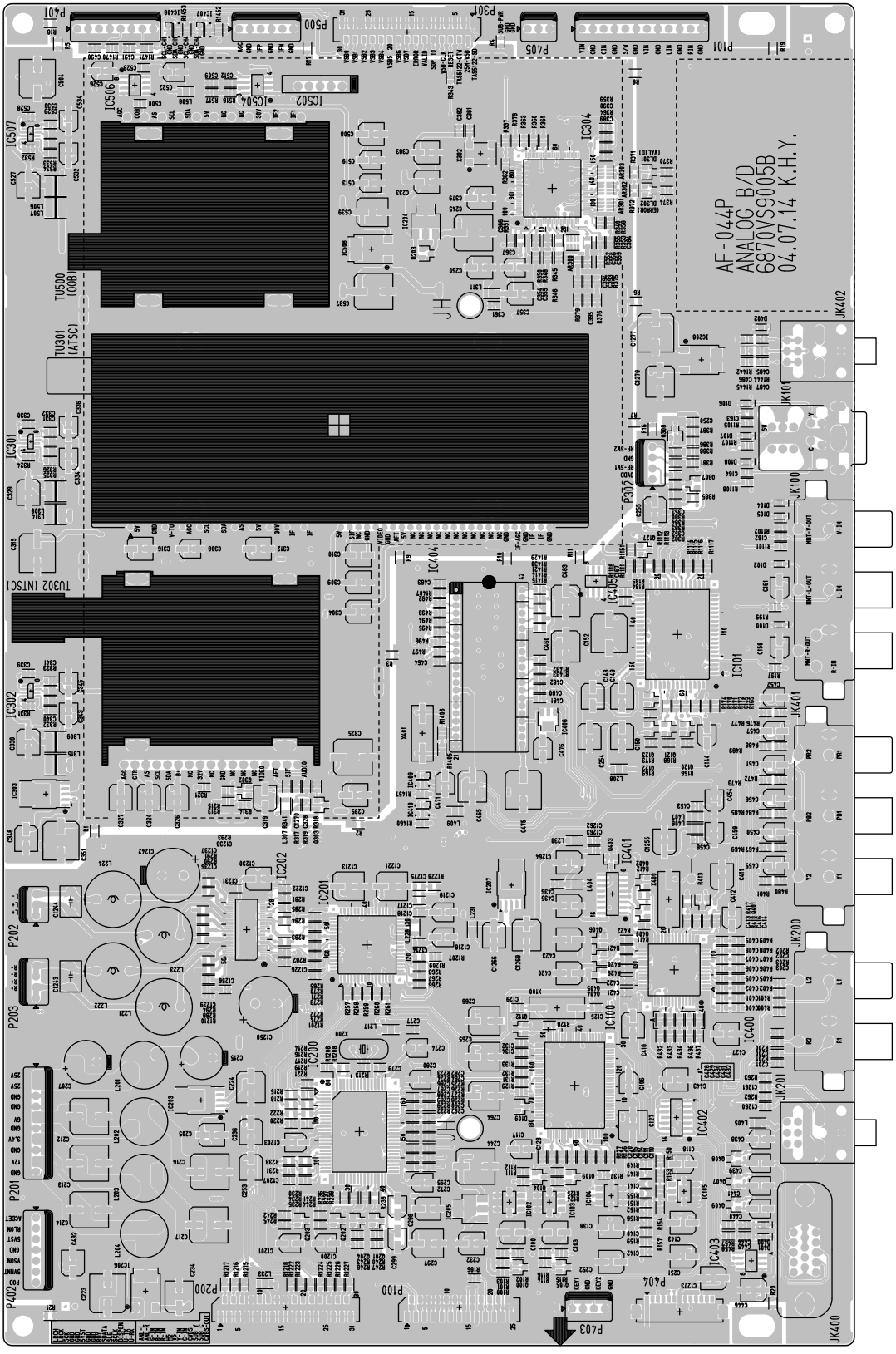


MAIN DIGITAL(BOTTOM)

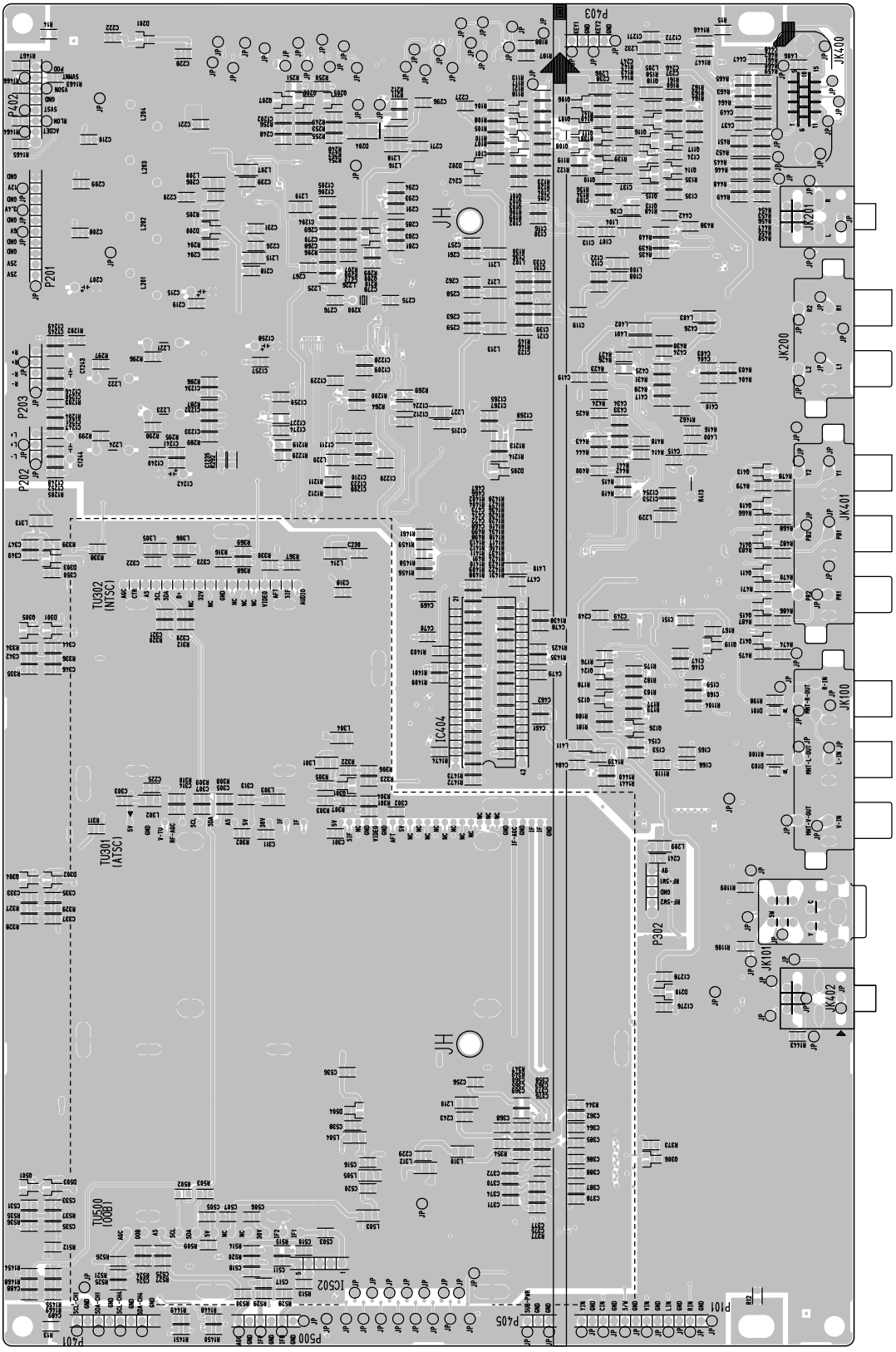


PRINTED CIRCUIT BOARD

TUNER ANALOG(TOP)

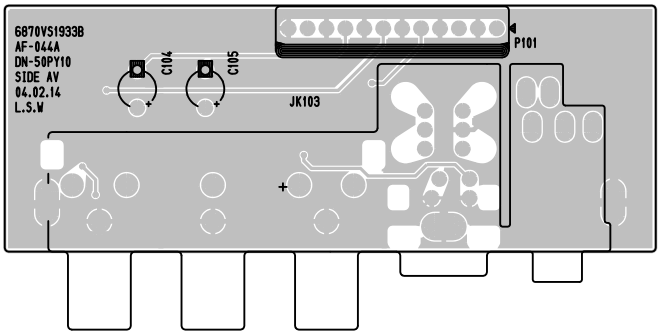


TUNER ANALOG(BOTTOM)

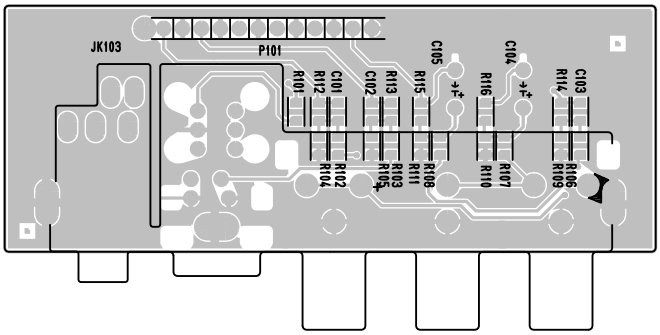


PRINTED CIRCUIT BOARD

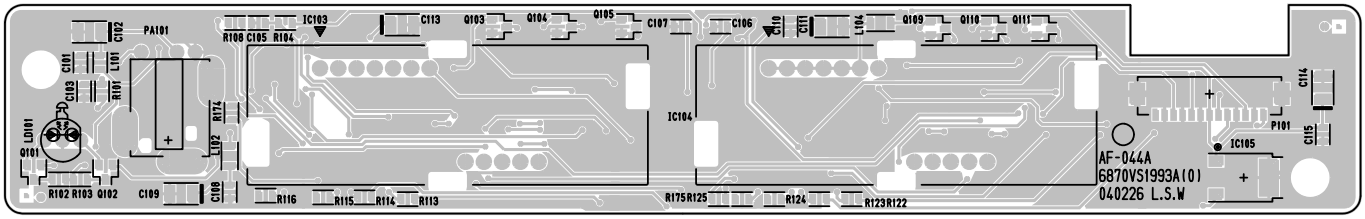
SIDE A/V(TOP)



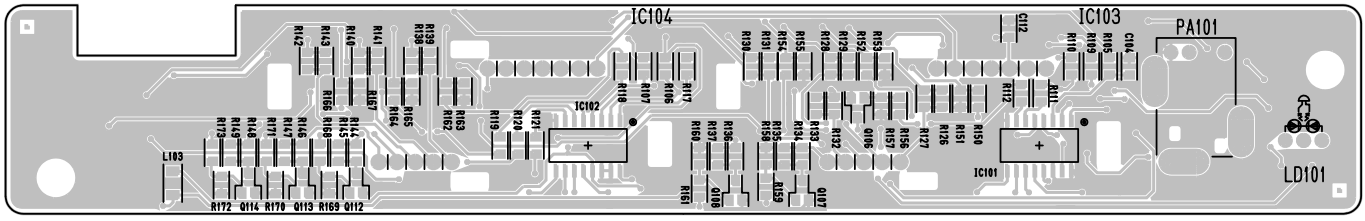
SIDE A/V(BOTTOM)



LED(TOP)

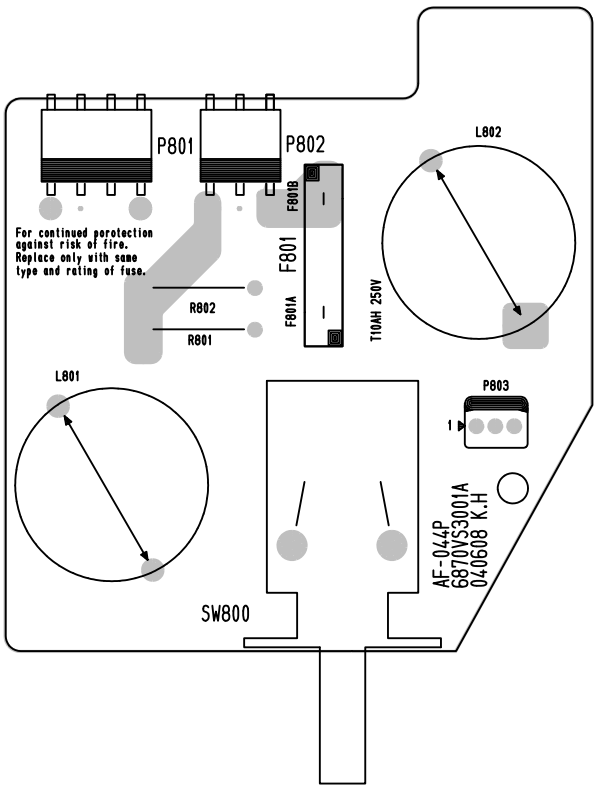


LED(BOTTOM)

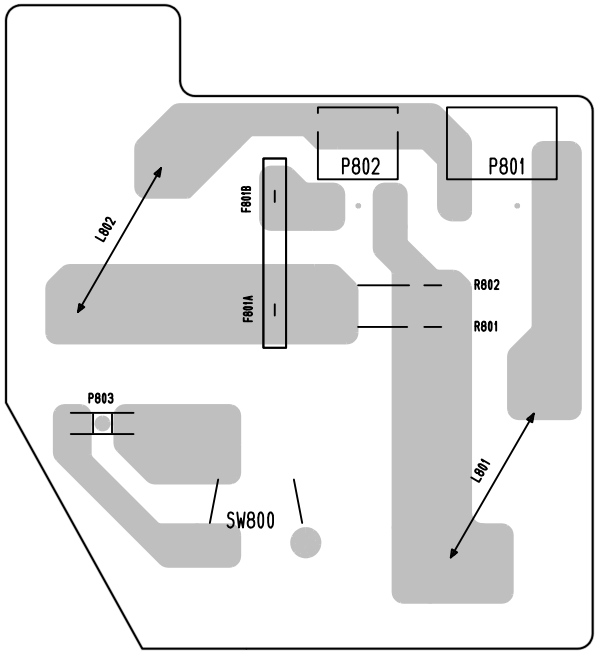


PRINTED CIRCUIT BOARD

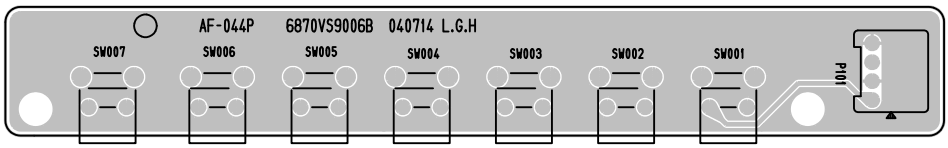
POWER S/W(TOP)



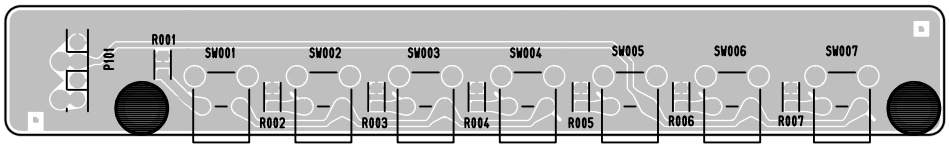
POWER S/W(BOTTOM)



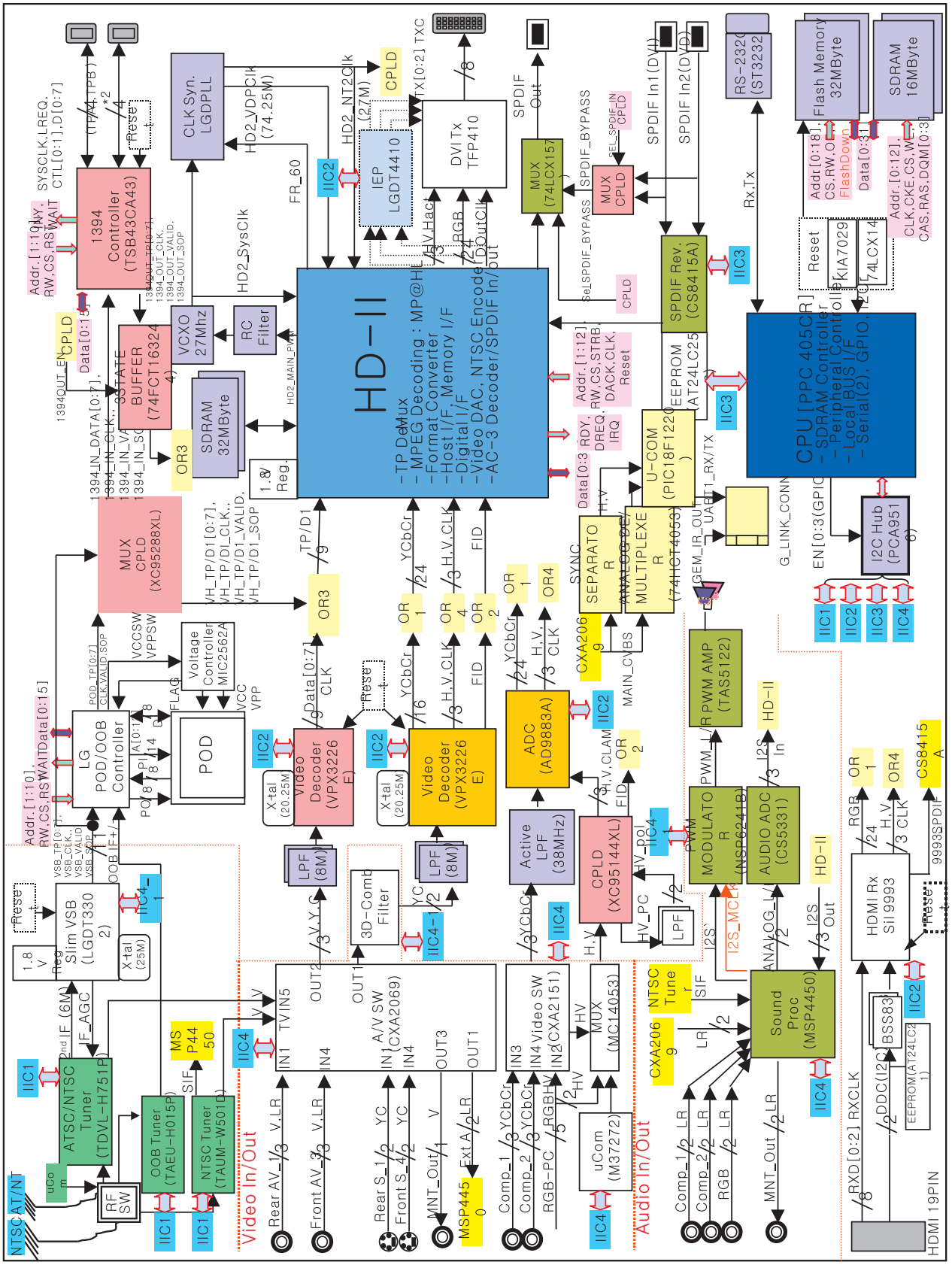
KEYBOARD(TOP)



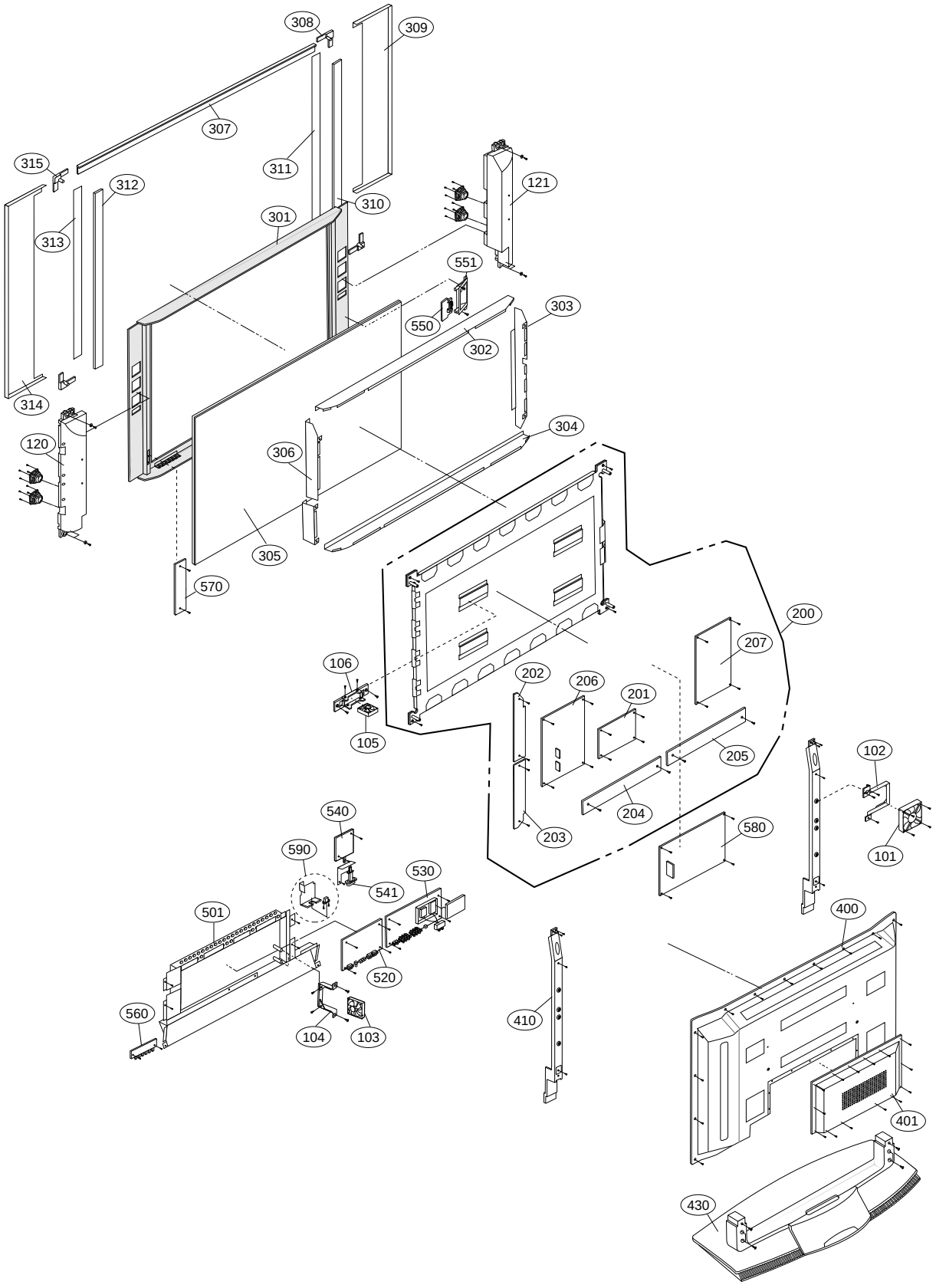
KEYBOARD(BOTTOM)



BLOCK DIAGRAM



EXPLODED VIEW



EXPLODED VIEW PARTS LIST

No.	Part No.	Description
101	5900V06008B	FAN,DC G6015S12B2-RG DONGYANG 60*60*15 7V 1900RPM 6/12V L=500MM
102	4980V01135A	SUPPORTER,FAN SECC(EGI) DN-42PX12X
103	5900V06008A	FAN,DC G6015S12B2-RG DONGYANG 60*60*15 12V 1500RPM 10/14V L=500MM
104	4980V00B81A	SUPPORTER,FAN EGI DN-50PY10
105	5900V06008B	FAN,DC G6015S12B2-RG 60*60*15 7V 1900RPM 6/12V L=500MM
106	4980V00D43A	SUPPORTER,FAN SECC(EGI) MZ-42PM10 NCT
120	6401VD0013J	SPEAKER ASSEMBLY,FULL RANGE(R)
121	6401VD0013K	SPEAKER ASSEMBLY,FULL RANGE(L)
200	6348Q-E042D	PDP,42 16:9 1024*768 PDP42X20000.AKLGG
201	6871QCH038A	PCB ASSEMBLY,DISPLAY CTRL ASSY 42X2 CTRL LGDP4023,4013
202	6871QDH068A	PCB ASSEMBLY,DISPLAY YDRV ASSY 42X2 YDRV TOP
203	6871QDH069A	PCB ASSEMBLY,DISPLAY YDRV ASSY 42X2 YDRV BOTTOM
204	6871QLH037A	PCB ASSEMBLY,DISPLAY XRLT ASSY 42X2 X-LEFT(TCP)
205	6871QRH043A	PCB ASSEMBLY,DISPLAY XRRT ASSY 42X2 X-RIGHT (TCP)
206	6871QYH030A	PCB ASSEMBLY,DISPLAY YSUS ASSY FOR 42X2
207	6871QZH034A	PCB ASSEMBLY,DISPLAY ZSUS ASSY FOR 42X2
301	3091V00649B	CABINET ASSEMBLY,DU-42PY10X NON AF044A C/A ASSY
302	4980V01063A	SUPPORTER ASSY,AL FILTER TOP DN-42PY10
303	4980V01066A	SUPPORTER ASSY,AL FILTER SIDE L DN-42PY10
304	4980V01064A	SUPPORTER ASSY,AL FILTER BOTTOM DN-42PY10
305	5230V00021C	FILTER(MECH),DU-42PY10 LG-CHEMICAL FLATRON PLASMA DELETE LG FOR AMREICA
306	4980V01065A	SUPPORTER ASSY,AL FILTER SIDE R DN-42PY10
307	3210V00249A	FRAME,FRONT AL DN-42PY10 TOP
308	4972V00112A	FIXER,FRAME AL DN-42PY10 LEFT
309	4811V00109A	BRACKET ASSEMBLY,SPEAKER DN-42PY10 AF045A LEFT
310	3210V00252A	FRAME,FRONT AL DN-42PY10 LEFT
311	3790V00744D	WINDOW,DECO DU-42PY10X ACRYL LEFT
312	3210V00251A	FRAME,FRONT AL DN-42PY10 RIGHT
313	3790V00743C	WINDOW,DECO DN-42PY10X ACRYL BK
314	4811V00108A	BRACKET ASSEMBLY,SPEAKER DN-42PY10 AF045A RIGHT
315	4972V00111A	FIXER,FRAME AL DN-42PY10 RIGHT
400	3809V00448G	BACK COVER ASSEMBLY,
401	3300V00407A	PLATE,AV AL NON POD
410	4980V01045A	SUPPORTER,MODULE AL DN-42PY10
430	3501V00184A	BOARD ASSEMBLY,AP-42DY11 AF045A DESK STAND, WITHOUT PACKING
501	3301V00027F	PLATE ASSEMBLY, 3301V00022 DU-42PY10X
520	6871VMMT13A	PCB ASSEMBLY,MAIN AF-044P DU-42PY10X DIGITAL BD
530	6871VSMG35A	PCB ASSEMBLY,SUB TUNER AF044P DU-42PY10X ANALOG
540	6871VSMH11A	PCB ASSEMBLY,SUB PSW AF044P DU-42PY10X
541	5020V00918A	BUTTON,POWER DN-42PY10 ABS, AF-303S 1KEY .
550	6871VSMF13A	PCB ASSEMBLY,SUB A/V AF044A DN-50PY10 SIDE A/V
551	4811V00111E	BRACKET ASSEMBLY,SIDE AV DU-42PY10X AF044A .
560	6871VSMF55A	PCB ASSEMBLY,SUB KEYBOARD AF044A DU-50PY10 LOCAL KEY
570	6871VSMF19A	PCB ASSEMBLY,SUB LED AF044P DU-42PY10X INDEX BD
580	3501V00181B	BOARD ASSEMBLY,POWER DN-42PY10X AF044A MURATA MPF7413
590	3141VSN932A	CHASSIS ASSEMBLY,SUB RF043A AC INET ASSY

REPLACEMENT PARTS LIST

For Capacitor & Resistors, the charactors at 2nd and 3rd digit in the P/No. means as follows;
CC, CX, CK, CN : Ceramic
CQ : Polyestor
CE : Electrolytic
RD : Carbon Film
RS : Metal Oxide Film
RN : Metal Film
RF : Fusible

RUN DATE : 2004.8.17

LOCA. NO	PART NO	DESCRIPTION
IC		
IC100	0IMMRNE002A	UPD64083GF3BA 100
IC100	0IMCRBM003A	IBM25PPC405CR-3BC200C
IC1001	0IMCRMT003A	MM1108XFFE 8P
IC1002	0IMO744053B	MC74HC4053DW 16SOP 3*2CH.MUX
IC1003	0IPMGNS026A	LM311MX 8P
IC1004	0IMCRMP006A	PIC18F1220T-I/SO 28P
IC1005	0IMCRMP007A	PIC18F242T-I/SO 18P
IC101	0ISO206900A	CXA2069Q QFP64
IC101	0IKE702900G	KIA7029AF SOT-89 TP 2.9V
IC101	0IMI623200B	M62320FP 16P
IC102	0IPH741400E	74HC14D 14SOP
IC102	0IMI623200B	M62320FP 16P
IC103	0IMCRPH015A	74LVC32AD 14P SOT108-1
IC105	0IMCRFA015A	KA7805R 2P
IC1100	0IMCRTI025A	TSB43CA42GGW 176P
IC1103	0IID741632A	74FCT163244CPA 48P
IC1201	0IMCRSH001A	PQ05DZ1U SHARP 5
IC1202	0IPMGKE032A	KIA78R09F 5PIN
IC1203	0IPMGKE032A	KIA78R09F 5PIN
IC1204	0IMI623200B	M62320FP 16P
IC1205	0IDS162100B	DS1621V 8P
IC1206	0IMCRSJ001B	SC1565IST-2.5TR 2.5V 1.5A 3P SOT-223
IC1207	0IMCRSJ001A	SC1565IST-1.8 3P SOT223
IC200	0IMCRMN027B	MSP4440G-QA-C13-101 80P
IC200	0IMMRHY038C	HY57V561620CT-H 54PIN
IC201	0IMCRNL001A	NSP-6241B 64P DIGITAL AUDIO
IC201	0IMMRHY038C	HY57V561620CT-H 54PIN
IC202	0IMCRTI028C	TAS5122DCAR 56P
IC202	0IMMRAM006B	AM29DL640H90EI 48P
IC203	0IMCRSH001A	PQ05DZ1U SHARP 5
IC203	0IMMRAM006B	AM29DL640H90EI 48P
IC204	0IMCRSJ001A	SC1565IST-1.8 3P SOT223
IC204	0IMCRXL004A	XC95288XL-10TQ144C 144P
IC205	0IPRPML001A	MIC39100 3P SOT223
IC205	0IMCRPH026A	PCA9516PW 16P
IC206	0IMCRFA010A	KA7809R 2P
IC206	0IMCRAL021A	AT24C512W-10SI-2.7 8P
IC207	0IMCRSH001A	PQ05DZ1U SHARP 5
IC207	0IMX232162A	MAX232ACSE 16NARROW-SO RS232
IC208	0IMCRFA010A	KA7809R 2P
IC208	0IMO744053B	MC74HC4053DW 16SOP 3*2CH.MUX
IC300	0ICTMLG009A	LGDT1102 HD2 SBGA-432PIN
IC301	0ITK118100B	TK11840L 8P SOT23L DC-DC CONVERTER
IC302	0ITK118100B	TK11840L 8P SOT23L DC-DC CONVERTER
IC303	0IMCRSH001A	PQ05DZ1U SHARP 5
IC304	0ICTMLG014B	LGDT3302S 100P

LOCA. NO	PART NO	DESCRIPTION
IC400	0IMCRSO008A	CXA2151Q 48P
IC400	0ICTMLG013A	LGDT1901A 24P
IC401	0IMO140530D	MC14053BDR2 16P
IC401	0IMMRSS041D	K4S641632H-TL75 54P
IC402	0IPH740800M	74F08D 14P
IC402	0IMMRSS041D	K4S641632H-TL75 54P
IC403	0IAL242110A	AT24C21-10SI-2.5 8P
IC403	0IMMRSS041D	K4S641632H-TL75 54P
IC404	0IMMRSS041D	K4S641632H-TL75 54P
IC404	0IZZVA3001A	M37272E8A(OTP) DIP 42P
IC405	0IMCRAL006A	AT24C16AN-10SI-2.7 8P
IC405	0IMCRCY002A	CY2309SC-1HT 16P R/TP 3.3V
IC406	0IKE704200J	KIA7042AF SOT-89 TP 4.2V
IC501	0IMCRAD002A	AD9883AKST-110 80P
IC502	0IMCRS5005A	SIL9993CTG100 100P
IC504	0IMCRTI035A	TL592B-8DR 8P VIDEO AMPLIFIER
IC506	0IMCRFA004A	KA2904DTF 8SOP R/TP OP-AMP
IC507	0ITK118100B	TK11840L 8P SOT23L DC-DC CONVERTER
IC508	0IMCRFA010A	KA7809R 2P
IC508	0IMMRAL014B	AT24C02N-10SI-2.7 8P
IC510	0IMCRRH001A	BA033FP-E2 3P-SOP,TO252-3 R/TP 3.3V
IC600	0ILNRMN005A	VPX3226E 44 VIDEO PIXEL DECODER
IC601	0ILNRMN005A	VPX3226E 44 VIDEO PIXEL DECODER
IC701	0IMCRTH002A	THC63LVD103 64P
IC702	0ICTMLG018A	LGDP4410 176P
IC703	0IMCRSJ001B	SC1565IST-2.5TR 2.5V 1.5A 3P SOT-223
IC704	0IPH827150A	P82B715T 8SOP
IC800	0IMCRFA013A	74LCX244MTC 20P
IC801	0ITO741570C	TC74LCX157FT 16P
IC802	0ICB841500B	CS8415A-CZR 28P 96KHZ DIGITAL AUDIO
IC803	0ICB533100A	CS5331A-KSR 8SOIC TP ADC
IC804	0IMO330780B	MC33078D 8/SOIC TP LINEAR +-18V OP AMP
IC805	0IPMGKE032A	KIA78R09F 5PIN DPAK R/TP 1A,9V
IC901	0ICTMLG017A	LGDT3502B 208P/PBGA
IC902	0IMCRLT002A	LCT1470CS8 8P
IC905	0IMCRSJ001B	SC1565IST-2.5TR 2.5V 1.5A 3P SOT-223
IC906	0IMCRFA013A	74LCX244MTC 20P
TRANSISTOR		
IC407	0TR830009BA	BSS83
IC408	0TR830009BA	BSS83
IC409	0TR830009BA	BSS83
IC410	0TR830009BA	BSS83
Q100	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q1001	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q1002	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q1003	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q1004	0TR150400BA	CHIP 2SA1504S(ASY) KEC

REPLACEMENT PARTS LIST

LOCA. NO	PART NO	DESCRIPTION
Q101	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q101	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q102	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q102	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q103	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q103	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q104	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q104	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q105	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q105	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q106	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q106	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q107	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q107	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q108	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q108	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q109	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q109	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q110	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q110	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q111	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q111	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q112	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q112	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q113	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q113	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q114	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q114	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q115	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q116	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q117	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q118	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q119	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q120	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q121	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q122	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q123	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q124	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q125	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q126	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q127	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q200	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q201	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q202	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q203	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q204	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q205	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q206	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q207	0TR102008AA	KRA102S SOT23 CHIP TR
Q301	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q302	0TR387500AA	CHIP 2SC3875S(ALY) KEC

LOCA. NO	PART NO	DESCRIPTION
Q303	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q304	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q305	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q306	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q307	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q308	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q400	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q400	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q401	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q401	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q402	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q402	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q403	0TR102009AG	CHIP KRC102S SOT-23 NA NA
Q403	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q404	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q404	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q405	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q406	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q407	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q408	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q409	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q410	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q411	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q412	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q413	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q414	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q415	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q501	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q501	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q502	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q503	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q504	0TR830009BA	BSS83
Q505	0TR830009BA	BSS83
Q600	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q601	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q602	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q603	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q604	0TR150400BA	CHIP 2SA1504S(ASY) KEC
DIODE		
D1001	0DD184009AA	KDS184S CHIP 85V 300MA
D1002	0DRSE00038A	SDC15 TVS SOT23 12.8V
D1003	0DRSE00038A	SDC15 TVS SOT23 12.8V
D1004	0DRSE00038A	SDC15 TVS SOT23 12.8V
D1005	0DD184009AA	KDS184S CHIP 85V 300MA
D109	0DL233309AC	LED,SAM2333
D201	0DRSE00038A	SDC15 TVS SOT23 12.8V
D202	0DRSE00038A	SDC15 TVS SOT23 12.8V
D204	0DZRM00248A	ZENERS,RLZ8.2B-TE11
D301	0DD184009AA	KDS184S CHIP 85V 300MA
D302	0DD184009AA	KDS184S CHIP 85V 300MA

REPLACEMENT PARTS LIST

LOCA. NO	PART NO	DESCRIPTION
D500	0DD184009AA	KDS184S CHIP 85V 300MA
D503	0DD184009AA	KDS184S CHIP 85V 300MA
DL1100	0DL233309AC	LED,SAM2333
DL1201	0DL233309AC	LED,SAM2333
DL1202	0DL233309AC	LED,SAM2333
DL301	0DL233309AC	LED,SAM2333
DL302	0DL233309AC	LED,SAM2333
IC103	6301V00003A	LED ASSEMBLY,UEX-LD-048
IC104	6301V00003A	LED ASSEMBLY,UEX-LD-048
IC1101	0DRSE00018A	SRV05-4.TC SOT23-6L 5V
IC1102	0DRSE00018A	SRV05-4.TC SOT23-6L 5V
CAPACITOR		
C100	0CE106SF6DC	10UF MVG 16V 20%
C1001	0CE226SH6DC	22UF MVG 25V 20%
C1003	0CS335EFKDC	3.3UF 3216 16V 20%,-20% (SMD)
C1006	0CE106SF6DC	10UF MVG 16V 20%
C101	0CE106SF6DC	10UF MVG 16V 20%
C1010	0CE105SK6DC	1UF MVG 50V M
C1018	0CS335EFKDC	3.3UF 3216 16V 20%,-20% (SMD)
C1019	0CE476SF6DC	47UF MVG 16V M
C1021	0CE476SF6DC	47UF MVG 16V M
C104	0CE1059K538	1UF KU 50V K FM5 TP5
C105	0CE1059K538	1UF KU 50V K FM5 TP5
C106	0CE106SF6DC	10UF MVG 16V 20%
C1115	0CK105DF64A	1UF 2012 16V 20%
C1120	0CE106SF6DC	10UF MVG 16V 20%
C1126	0CE106SF6DC	10UF MVG 16V 20%
C1129	0CK105DF64A	1UF 2012 16V 20%
C1130	0CK105DF64A	1UF 2012 16V 20%
C117	0CE106SF6DC	10UF MVG 16V 20%
C118	0CE105SK6DC	1UF MVG 50V M
C1200	0CE475SK6DC	4.7UF MVG 50V 20%
C1201	0CE475SK6DC	4.7UF MVG 50V 20%
C1201	0CE477SF6DC	470UF MVG 16V 20%
C1203	0CE226SF6DC	22UF MVG 16V 20%
C1203	0CE477SF6DC	470UF MVG 16V 20%
C1205	0CE477SF6DC	470UF MVG 16V 20%
C1207	0CE477SF6DC	470UF MVG 16V 20%
C1209	0CE477SF6DC	470UF MVG 16V 20%
C1211	0CE477SF6DC	470UF MVG 16V 20%
C1213	0CE107SF6DC	100UF MVG 16V M
C1215	0CE477SF6DC	470UF MVG 16V 20%
C1216	0CE106SF6DC	10UF MVG 16V 20%
C1216	0CE477SF6DC	470UF MVG 16V 20%
C1219	0CE106SF6DC	10UF MVG 16V 20%
C1219	0CE477SF6DC	470UF MVG 16V 20%
C1220	0CE477SF6DC	470UF MVG 16V 20%
C1221	0CE107SF6DC	100UF MVG 16V M
C1222	0CK105DF64A	1UF 2012 16V 20%
C1223	0CE477SF6DC	470UF MVG 16V 20%

LOCA. NO	PART NO	DESCRIPTION
C1224	0CE477SF6DC	470UF MVG 16V 20%
C1226	0CK105DF64A	1UF 2012 16V 20%
C1228	0CE476SF6DC	47UF MVG 16V M
C1230	0CE106SK6DC	10UF MVG 50V 20%
C1230	0CE476SF6DC	47UF MVG 16V M
C1232	0CE476SF6DC	47UF MVG 16V M
C1234	0CE476SF6DC	47UF MVG 16V M
C1235	0CE476SF6DC	47UF MVG 16V M
C1237	0CE476SF6DC	47UF MVG 16V M
C1242	0CE108BJ618	1000UF KME 35V M
C1243	0CF4741L438	0.47UF D 63V 5%
C1244	0CF4741L438	0.47UF D 63V 5%
C1255	0CE476SF6DC	47UF MVG 16V M
C1258	0CE108BJ618	1000UF KME 35V M
C1264	0CE476SF6DC	47UF MVG 16V M
C1266	0CE476SF6DC	47UF MVG 16V M
C1269	0CE107SF6DC	100UF MVG 16V M
C127	0CE107SF6DC	100UF MVG 16V M
C1273	0CE476SF6DC	47UF MVG 16V M
C1277	0CE477SF6DC	470UF MVG 16V 20%
C1279	0CE107SF6DC	100UF MVG 16V M
C135	0CE226SF6DC	22UF MVG 16V 20%
C138	0CE476SF6DC	47UF MVG 16V M
C139	0CE226SF6DC	22UF MVG 16V 20%
C140	0CK105DF64A	1UF 2012 16V 20%
C143	0CE476SF6DC	47UF MVG 16V M
C144	0CE105SK6DC	1UF MVG 50V M
C148	0CE226SF6DC	22UF MVG 16V 20%
C149	0CE226SF6DC	22UF MVG 16V 20%
C150	0CE476SF6DC	47UF MVG 16V M
C152	0CE477SF6DC	470UF MVG 16V 20%
C158	0CE105SK6DC	1UF MVG 50V M
C161	0CE105SK6DC	1UF MVG 50V M
C205	0CE476SF6DC	47UF MVG 16V M
C207	0CE477DJ618	470UF STD 35V 20%
C212	0CE477SF6DC	470UF MVG 16V 20%
C213	0CE477SF6DC	470UF MVG 16V 20%
C214	0CE477SF6DC	470UF MVG 16V 20%
C215	0CE477DJ618	470UF STD 35V 20%
C216	0CE477SF6DC	470UF MVG 16V 20%
C217	0CE477SF6DC	470UF MVG 16V 20%
C221	0CE226SF6DC	22UF MVG 16V 20%
C223	0CE477SF6DC	470UF MVG 16V 20%
C224	0CE107SF6DC	100UF MVG 16V M
C228	0CE226SF6DC	22UF MVG 16V 20%
C232	0CE476SF6DC	47UF MVG 16V M
C233	0CE476SF6DC	47UF MVG 16V M
C234	0CE107SF6DC	100UF MVG 16V M
C235	0CE476SF6DC	47UF MVG 16V M
C236	0CE476SF6DC	47UF MVG 16V M
C244	0CE477SF6DC	470UF MVG 16V 20%

REPLACEMENT PARTS LIST

LOCA. NO	PART NO	DESCRIPTION
C245	0CE477SF6DC	470UF MVG 16V 20%
C249	0CE476SF6DC	47UF MVG 16V M
C251	0CE476SF6DC	47UF MVG 16V M
C252	0CE476SF6DC	47UF MVG 16V M
C253	0CE476SF6DC	47UF MVG 16V M
C254	0CE476SF6DC	47UF MVG 16V M
C255	0CE476SF6DC	47UF MVG 16V M
C260	0CE476SF6DC	47UF MVG 16V M
C264	0CE107SF6DC	100UF MVG 16V M
C265	0CE107SF6DC	100UF MVG 16V M
C266	0CE107SF6DC	100UF MVG 16V M
C272	0CE476SF6DC	47UF MVG 16V M
C274	0CE226SF6DC	22UF MVG 16V 20%
C280	0CE335SK6DC	3.3UF MVG 50V 20%
C295	0CE335SK6DC	3.3UF MVG 50V 20%
C297	0CE107SF6DC	100UF MVG 16V M
C298	0CE106SF6DC	10UF MVG 16V 20%
C299	0CE106SF6DC	10UF MVG 16V 20%
C304	0CE476SF6DC	47UF MVG 16V M
C308	0CE105SK6DC	1UF MVG 50V M
C309	0CE476SF6DC	47UF MVG 16V M
C310	0CE476SF6DC	47UF MVG 16V M
C312	0CE226SF6DC	22UF MVG 16V 20%
C315	0CE476VK6DC	47UF MV 50V 20%
C319	0CE476SF6DC	47UF MVG 16V M
C325	0CE476VK6DC	47UF MV 50V 20%
C326	0CE476SF6DC	47UF MVG 16V M
C329	0CE476SF6DC	47UF MVG 16V M
C334	0CE335SK6DC	3.3UF MVG 50V 20%
C336	0CE225VK6DC	2.2UF MV 50V 20%
C338	0CE476SF6DC	47UF MVG 16V M
C343	0CE335SK6DC	3.3UF MVG 50V 20%
C345	0CE225VK6DC	2.2UF MV 50V 20%
C348	0CE476SF6DC	47UF MVG 16V M
C351	0CE477SF6DC	470UF MVG 16V 20%
C357	0CE476SF6DC	47UF MVG 16V M
C367	0CE105SK6DC	1UF MVG 50V M
C380	0CE226SF6DC	22UF MVG 16V 20%
C383	0CE476SF6DC	47UF MVG 16V M
C400	0CE106SF6DC	10UF MVG 16V 20%
C403	0CE226SF6DC	22UF MVG 16V 20%
C406	0CE226SF6DC	22UF MVG 16V 20%
C410	0CE226SF6DC	22UF MVG 16V 20%
C411	0CE476SF6DC	47UF MVG 16V M
C412	0CE105SK6DC	1UF MVG 50V M
C412	0CE106SF6DC	10UF MVG 16V 20%
C413	0CE106SF6DC	10UF MVG 16V 20%
C414	0CE106SF6DC	10UF MVG 16V 20%
C415	0CE226SF6DC	22UF MVG 16V 20%
C418	0CE476SF6DC	47UF MVG 16V M
C420	0CE476SF6DC	47UF MVG 16V M

LOCA. NO	PART NO	DESCRIPTION
C427	0CE476SF6DC	47UF MVG 16V M
C435	0CE476SF6DC	47UF MVG 16V M
C438	0CE106SF6DC	10UF MVG 16V 20%
C439	0CE106SF6DC	10UF MVG 16V 20%
C440	0CE106SF6DC	10UF MVG 16V 20%
C441	0CE106SF6DC	10UF MVG 16V 20%
C443	0CE476SF6DC	47UF MVG 16V M
C446	0CE476SF6DC	47UF MVG 16V M
C450	0CE106SF6DC	10UF MVG 16V 20%
C451	0CE106SF6DC	10UF MVG 16V 20%
C452	0CE106SF6DC	10UF MVG 16V 20%
C454	0CE106SF6DC	10UF MVG 16V 20%
C455	0CE106SF6DC	10UF MVG 16V 20%
C456	0CE106SF6DC	10UF MVG 16V 20%
C457	0CE106SF6DC	10UF MVG 16V 20%
C459	0CE106SF6DC	10UF MVG 16V 20%
C460	0CE107SF6DC	100UF MVG 16V M
C465	0CE107SF6DC	100UF MVG 16V M
C471	0CE105SK6DC	1UF MVG 50V M
C475	0CE477SF6DC	470UF MVG 16V 20%
C476	0CE105SK6DC	1UF MVG 50V M
C483	0CE107SF6DC	100UF MVG 16V M
C492	0CE105SK6DC	1UF MVG 50V M
C504	0CE476VK6DC	47UF MV 50V 20%
C508	0CE476SF6DC	47UF MVG 16V M
C513	0CE226SF6DC	22UF MVG 16V 20%
C519	0CE106SF6DC	10UF MVG 16V 20%
C522	0CE226SF6DC	22UF MVG 16V 20%
C526	0CE106SF6DC	10UF MVG 16V 20%
C527	0CE476SF6DC	47UF MVG 16V M
C529	0CE106SF6DC	10UF MVG 16V 20%
C530	0CE106SF6DC	10UF MVG 16V 20%
C531	0CE106SF6DC	10UF MVG 16V 20%
C532	0CE335SK6DC	3.3UF MVG 50V 20%
C532	0CE106SF6DC	10UF MVG 16V 20%
C533	0CE106SF6DC	10UF MVG 16V 20%
C534	0CE225VK6DC	2.2UF MV 50V 20%
C534	0CE226SF6DC	22UF MVG 16V 20%
C535	0CE226SF6DC	22UF MVG 16V 20%
C536	0CE226SF6DC	22UF MVG 16V 20%
C537	0CE477SF6DC	470UF MVG 16V 20%
C538	0CE476SF6DC	47UF MVG 16V M
C539	0CE107SF6DC	100UF MVG 16V M
C540	0CK823DK56A	82000PF 2012 50V 10%
C542	0CE226SF6DC	22UF MVG 16V 20%
C543	0CE226SF6DC	22UF MVG 16V 20%
C544	0CE226SF6DC	22UF MVG 16V 20%
C545	0CE226SF6DC	22UF MVG 16V 20%
C568	0CE106SF6DC	10UF MVG 16V 20%
C570	0CE106SF6DC	10UF MVG 16V 20%
C573	0CE226SF6DC	22UF MVG 16V 20%

REPLACEMENT PARTS LIST

LOCA. NO	PART NO	DESCRIPTION
C574	0CE226SF6DC	22UF MVG 16V 20%
C612	0CK684DF56A	0.68UF 2012 16V 10%
C613	0CK684DF56A	0.68UF 2012 16V 10%
C614	0CE106SF6DC	10UF MVG 16V 20%
C615	0CE106SF6DC	10UF MVG 16V 20%
C616	0CK474DH56A	0.47UF 2012 25V 10%
C620	0CE226SF6DC	22UF MVG 16V 20%
C621	0CE226SF6DC	22UF MVG 16V 20%
C622	0CE226SF6DC	22UF MVG 16V 20%
C623	0CE226SF6DC	22UF MVG 16V 20%
C624	0CE226SF6DC	22UF MVG 16V 20%
C625	0CE226SF6DC	22UF MVG 16V 20%
C727	0CE226SF6DC	22UF MVG 16V 20%
C728	0CE226SF6DC	22UF MVG 16V 20%
C731	0CE476SF6DC	47UF MVG 16V M
C732	0CE476SF6DC	47UF MVG 16V M
C802	0CE106SH6DC	10UF MVG 25V M
C812	0CE107SF6DC	100UF MVG 16V M
C814	0CE107SF6DC	100UF MVG 16V M
C818	0CE226SF6DC	22UF MVG 16V 20%
C819	0CE226SF6DC	22UF MVG 16V 20%
C822	0CE226SF6DC	22UF MVG 16V 20%
C823	0CE226SF6DC	22UF MVG 16V 20%
C832	0CE476SF6DC	47UF MVG 16V M
C833	0CE476SF6DC	47UF MVG 16V M
C912	0CE105SK6DC	1UF MVG 50V M
C914	0CE105SK6DC	1UF MVG 50V M
C917	0CE476SF6DC	47UF MVG 16V M
C920	0CE476SF6DC	47UF MVG 16V M
C921	0CE477SF6DC	470UF MVG 16V 20%
C942	0CE106SF6DC	10UF MVG 16V 20%
C946	0CE106SF6DC	10UF MVG 16V 20%
C949	0CE106SF6DC	10UF MVG 16V 20%
JACK		
J800	6612BBBHN4A	JACK,DIN TOTX179
J801	6612BBBHN4B	JACK,DIN TORX179
J802	6612BBBHN4B	JACK,DIN TORX179
JK100	6612VJH020B	JACK,RCA PPJ122B 6P
JK101	380-363G	JACK,DIN 6046B-01S
JK103	6613V00026A	JACK ASSEMBLY,UJB-03-28A
JK200	6612VJH019B	JACK,RCA PPJ121B 4P
JK201	380-068E	JACK,PHONE UEJ-CV-018
JK401	6612VJH020C	JACK,RCA PPJ122C 6P
JK402	380-068E	JACK,PHONE UEJ-CV-018
P1003	6612F00055B	JACK,PHONE UEJ-CV-031
P501	6612B00015A	JACK,DIN DC1R019NDA
COIL		
CH1100	6140VB0021A	COIL,CHOKE 944CM-0004=P3
CH1101	6140VB0021A	COIL,CHOKE 944CM-0004=P3

LOCA. NO	PART NO	DESCRIPTION
L1201	6140VB0004B	COIL,CHOKE 26UH
L1202	6140VB0004B	COIL,CHOKE 26UH
L1203	6140VB0004B	COIL,CHOKE 26UH
L1204	6140VB0004B	COIL,CHOKE 26UH
L201	6140VB0004B	COIL,CHOKE 26UH
L202	6140VB0004B	COIL,CHOKE 26UH
L203	6140VB0004B	COIL,CHOKE 26UH
L204	6140VB0004B	COIL,CHOKE 26UH
L221	6140VB0024A	COIL,CHOKE LPK-1322A 22UH +-10%
L222	6140VB0024A	COIL,CHOKE LPK-1322A 22UH +-10%
L223	6140VB0024A	COIL,CHOKE LPK-1322A 22UH +-10%
L224	6140VB0024A	COIL,CHOKE LPK-1322A 22UH +-10%
L308	6140VR0006A	COIL,100UH(+-15%), SP4532-101
L309	6140VR0006A	COIL,100UH(+-15%), SP4532-101
L314	6140VR0006A	COIL,100UH(+-15%), SP4532-101
L315	6140VR0006A	COIL,100UH(+-15%), SP4532-101
L506	6140VR0006A	COIL,100UH(+-15%), SP4532-101
L507	6140VR0006A	COIL,100UH(+-15%), SP4532-101
CONNECTOR		
JK400	6630VGA001C	CONNECTOR,D-SUB 15PIN 2.29MM
P1100	6630SD01304	CONNECTOR,USB 4P 0.8MM
P1101	6630SD01304	CONNECTOR,USB 4P 0.8MM
P201	6630VGA004B	CONNECTOR,D-SUB 9P 2.77MM
RESISTOR		
AR100	0RRZVTA001C	4.7K OHM 1 / 16 W 1608 5%
AR101	0RRZVTA001C	4.7K OHM 1 / 16 W 1608 5%
AR102	0RRZVTA001C	4.7K OHM 1 / 16 W 1608 5%
AR103	0RRZVTA001C	4.7K OHM 1 / 16 W 1608 5%
AR104	0RRZVTA001C	4.7K OHM 1 / 16 W 1608 5%
AR105	0RRZVTA001C	4.7K OHM 1 / 16 W 1608 5%
AR106	0RRZVTA001C	4.7K OHM 1 / 16 W 1608 5%
AR107	0RRZVTA001C	4.7K OHM 1 / 16 W 1608 5%
AR108	0RRZVTA001C	4.7K OHM 1 / 16 W 1608 5%
AR200	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR201	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR202	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR203	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR300	0RRZVTA001C	4.7K OHM 1 / 16 W 1608 5%
AR300	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR301	0RRZVTA001B	MNR14-E0A-J-510 R OHM 51
AR301	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR302	0RRZVTA001B	MNR14-E0A-J-510 R OHM 51
AR302	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR303	0RRZVTA001B	MNR14-E0A-J-510 R OHM 51
AR303	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR304	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR305	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR500	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR501	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%

REPLACEMENT PARTS LIST

LOCA. NO	PART NO	DESCRIPTION
AR502	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR503	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR504	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR505	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR506	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR507	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR508	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR509	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR510	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR511	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR600	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR601	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR602	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR603	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR604	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR605	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR701	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR702	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR703	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR704	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR705	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR706	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR908	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR909	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR910	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR911	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR914	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR915	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR916	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR917	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR919	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR920	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR921	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR924	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
R1202	0RD0392A609	39 OHM 1/2 W(7.0) 5.00%
R1218	0RS0202K607	20 OHM 2 W 5.00%
R413	0RN1002F409	10K OHM 1/6 W 1.00%
R801	0RKZVTA001L	1.0M OHM 1/2 W 5%
R802	0RKZVTA001L	1.0M OHM 1/2 W 5%
SWITCH		
SW001	140-315A	SWITCH,TACT SKHV17910B 12V
SW002	140-315A	SWITCH,TACT SKHV17910B 12V
SW003	140-315A	SWITCH,TACT SKHV17910B 12V
SW004	140-315A	SWITCH,TACT SKHV17910B 12V
SW005	140-315A	SWITCH,TACT SKHV17910B 12V
SW006	140-315A	SWITCH,TACT SKHV17910B 12V

LOCA. NO	PART NO	DESCRIPTION
SW007	140-315A	SWITCH,TACT SKHV17910B 12V
SW100	6600VR1004A	SWITCH,TACT SKHMPW 5P
FILTER & CRYSTAL		
FL1001	6200VJT001A	FILTER,EMC BMK400 50VOLT 1A
IC102	6200C000010	FILTER,B.P. H354LAI-K5202
IC103	6200C000010	FILTER,B.P. H354LAI-K5202
IC104	6200C000009	FILTER,B.P. H354LAI-K5225
IC105	6200C000009	FILTER,B.P. H354LAI-K5225
IC502	6200QL3002E	FILTER,SAW X9650M 44MHZ 5PIN
IC505	6200VKR002A	FILTER,B.P. LPF 2EA TA355LSK-K5216 38MHZ
IC506	6200VKR002A	FILTER,B.P. LPF 2EA TA355LSK-K5216 38MHZ
IC507	6200VKR002A	FILTER,B.P. LPF 2EA TA355LSK-K5216 38MHZ
IC602	6200C000012	FILTER,B.P. TH355LSK-K5218
IC603	6200C000012	FILTER,B.P. TH355LSK-K5218
IC604	6200C000012	FILTER,B.P. TH355LSK-K5218
IC605	6200C000012	FILTER,B.P. TH355LSK-K5218
L1002	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L1003	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L1004	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L1005	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L101	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L102	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L102	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L103	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L103	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L104	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L104	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L1205	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L1206	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L200	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L201	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L202	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L203	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L204	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L205	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L205	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L206	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L206	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L207	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L208	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L208	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L209	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L210	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L211	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L212	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L213	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L214	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L215	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L220	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L227	6210VC0006A	FILTER,EMC FBMH3216 HM501NT

REPLACEMENT PARTS LIST

LOCA. NO	PART NO	DESCRIPTION
L228	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L229	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L230	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L231	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L232	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L233	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L300	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L301	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L302	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L310	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L311	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L312	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L313	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L400	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L401	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L402	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L403	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L404	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L404	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L405	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L406	6210VC0005A	FILTER,EMC BK2125 HS 750
L407	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L407	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L408	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L408	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L409	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L410	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L500	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L501	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L502	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L503	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L504	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L505	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L506	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L507	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L508	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L600	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L601	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L602	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L603	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L604	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L605	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L701	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L704	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L705	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L801	6200J000025	FILTER,EMC TO-0927 200UH +-10%
L802	6200J000025	FILTER,EMC TO-0927 200UH +-10%
L901	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L902	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L903	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L907	6210VC0006A	FILTER,EMC FBMH3216 HM501NT

LOCA. NO	PART NO	DESCRIPTION
L908	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L909	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L911	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
R102	6200JB8010L	FILTER,EMC MLB-201209-1000L-N2
R103	6200JB8010L	FILTER,EMC MLB-201209-1000L-N2
R106	6200JB8010L	FILTER,EMC MLB-201209-1000L-N2
R107	6200JB8010L	FILTER,EMC MLB-201209-1000L-N2
R108	6200JB8010L	FILTER,EMC MLB-201209-1000L-N2
X100	6212AB2015B	RESONATOR,CRYSTAL HC-49/SM5H 20MHZ
X1001	6212AB2015E	RESONATOR,CRYSTAL HC-49/SM 10.0MHZ
X1002	6212AB2015A	RESONATOR,CRYSTAL HC-49/SM4H 4MHZ
X1101	6212AB2806A	RESONATOR,CRYSTAL SX-1 24.576MHZ
X200	156-A02M	RESONATOR,CRYSTAL HC49U 18.432MHZ
X400	6212AB2015A	RESONATOR,CRYSTAL HC-49/SM4H 4MHZ
X401	6202VDT002D	RESONATOR,CRYSTAL SX-1SMD 8.0MHZ
X600	6202VDB007B	RESONATOR,CRYSTAL HC49U 20.250MHZ
X601	6202VDB007B	RESONATOR,CRYSTAL HC49U 20.250MHZ
X900	6212AC2001D	RESONATOR,CRYSTAL HC-49/SM 14MHZ
MISCELLANEOUS		
F801	0FS1002B53K	FUSE,SLOW BLOW 10000MA 250V
TU301	6700NFNS04F	TUNER,TDVL-H751P
TU302	6700NF0010B	TUNER,TAFM-H502P
TU500	6700NC0001B	TUNER,TAEU-H018P
X100	6204B47985L	OSCILLATOR,SCO-103 33.33HZ
X1100	6204B47985M	OSCILLATOR,SCO-103 13.5MHZ
X201	6204B47985K	OSCILLATOR,BMS-873R 25MHZ
X302	6204B47985K	OSCILLATOR,BMS-873R 25MHZ
X400	6204B60001B	OSCILLATOR,27MHZ +/- 100 PPM 3.3V
ACCESSORIES		
A1	3828VA0479E	MANUAL,OWNERS AF044P
A2	6710V00116Y	REMOTE CONTROLLER
A3	6410VUH005A	POWER CORD,PS204 125V/13A 2800MM
A4	6851V00019A	CABLE ASSEMBLY,RF CONN CABLE ASSY
A5	6851V00023B	CABLE ASSEMBLY,3000MM 2PICE G-LINK IR 2P
A7	4810V00509A	BRACKET,WALL AP-40/42DA10

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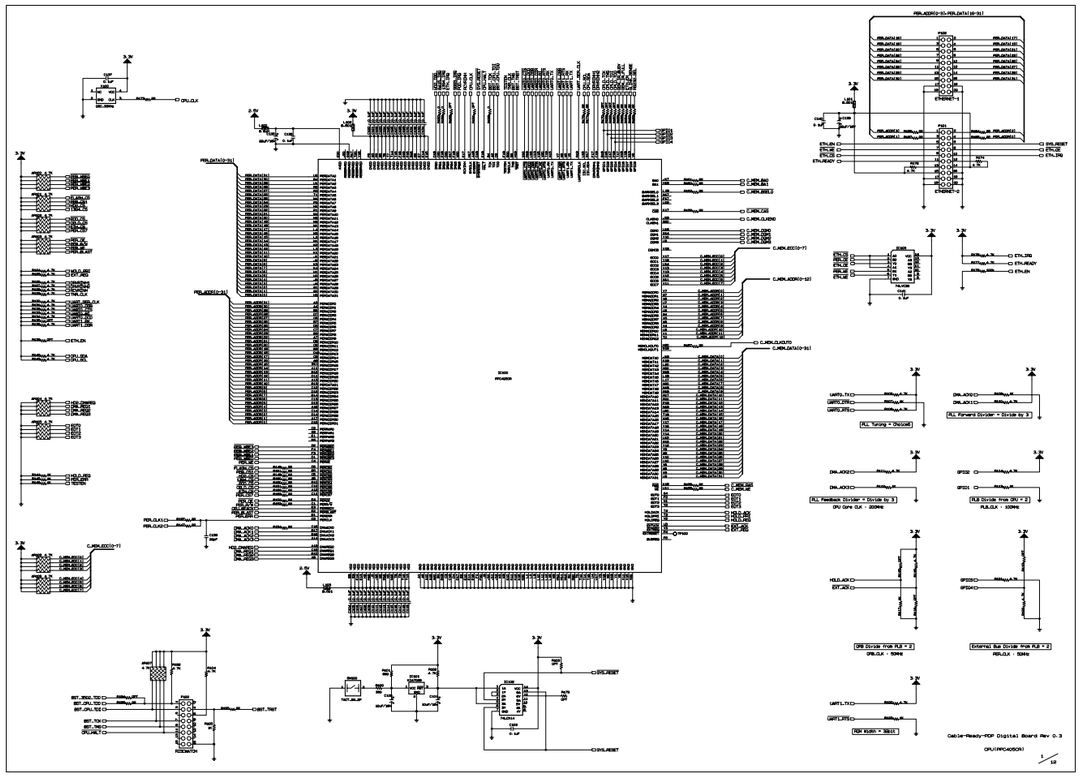
P.O.Box 240007, 201 James Record Road, Bldg. 3, Huntsville, AL 35824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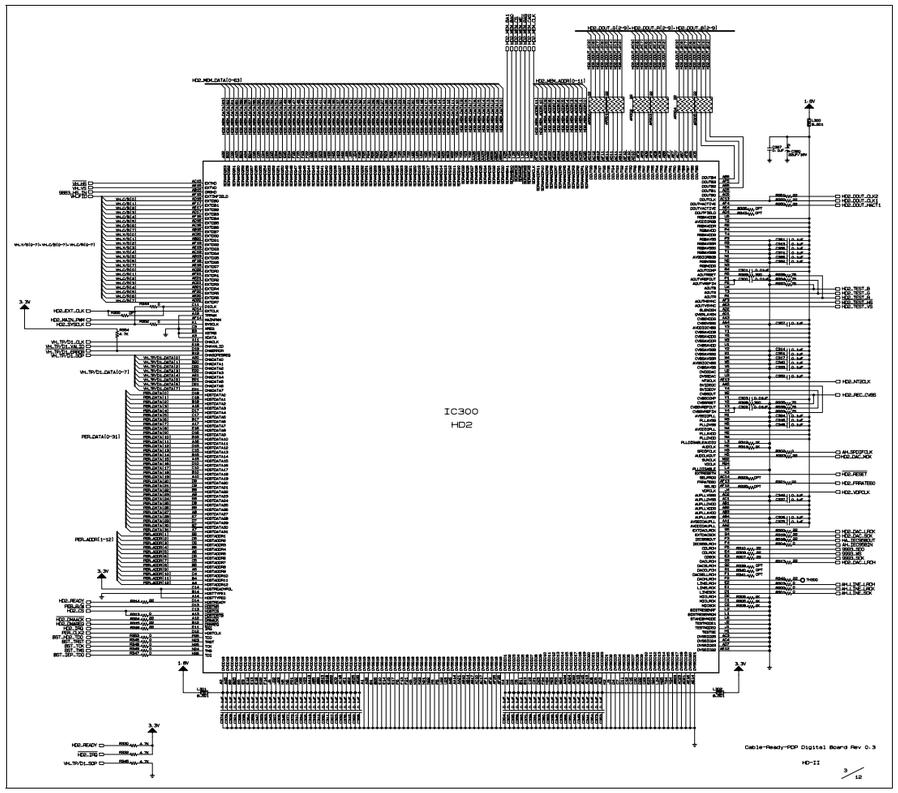
HD2
Cable-Ready-PDP Digital Board Rev 0.3
CPU/FPGA(SCH)
1
12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3
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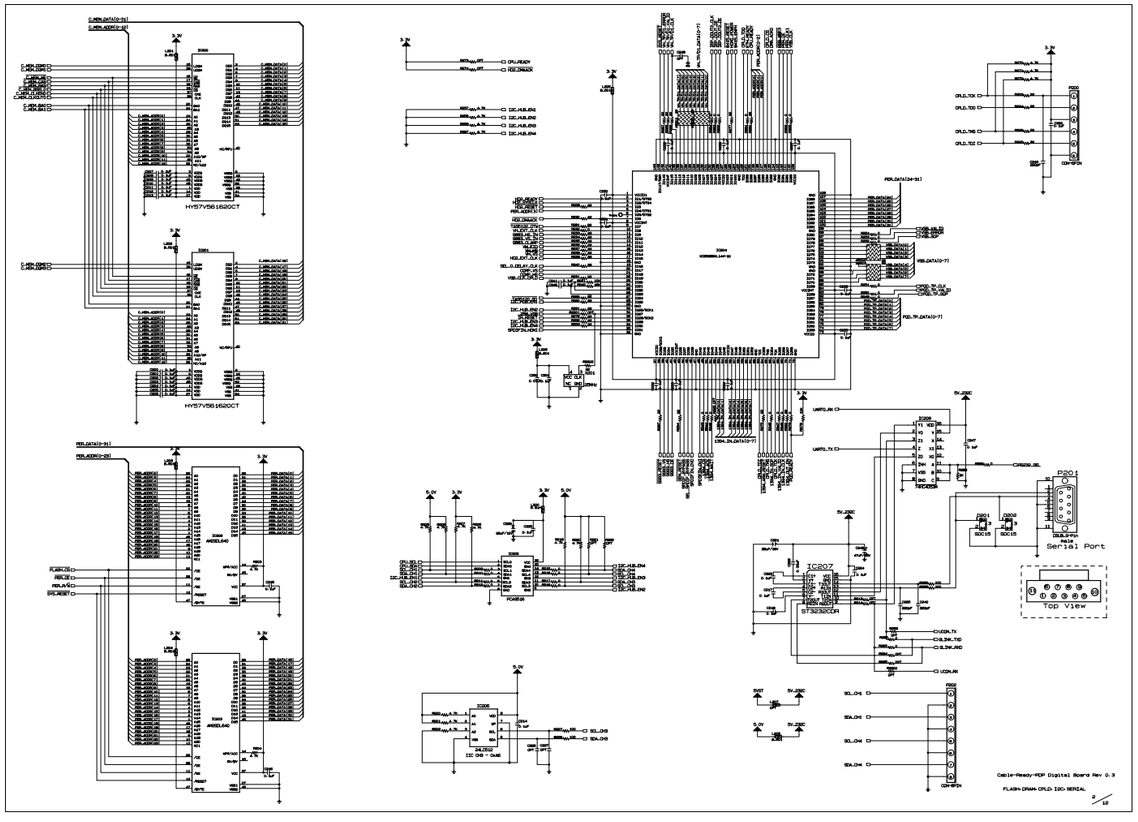
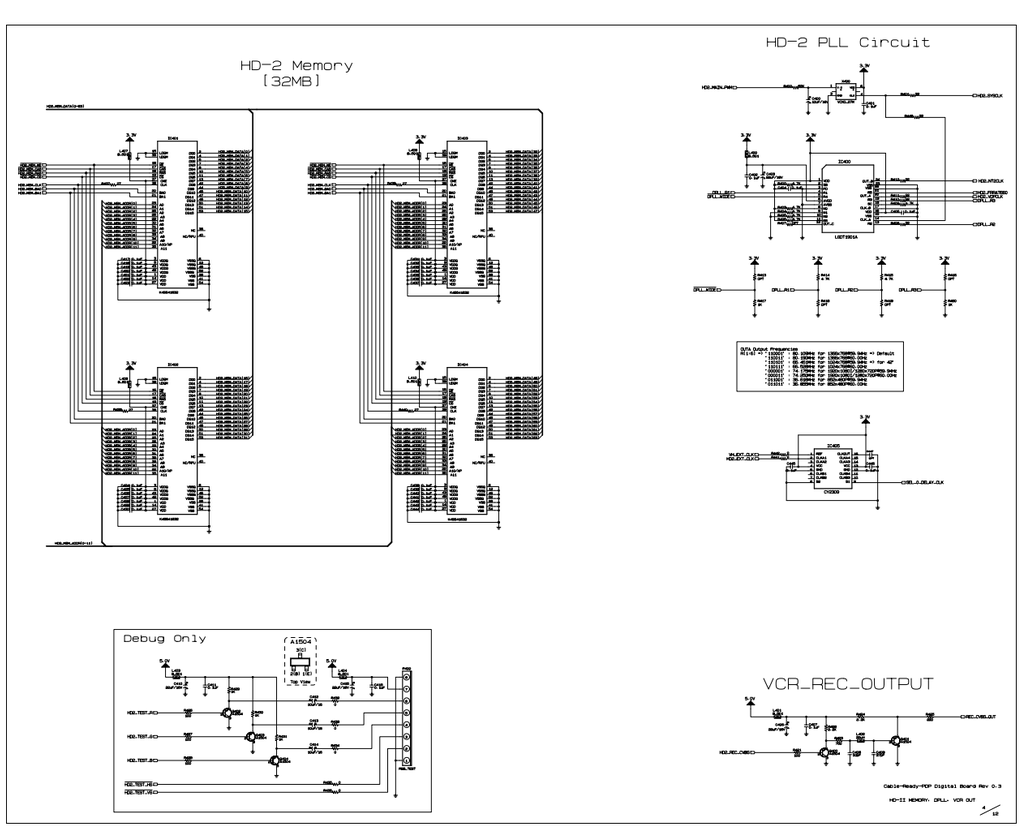
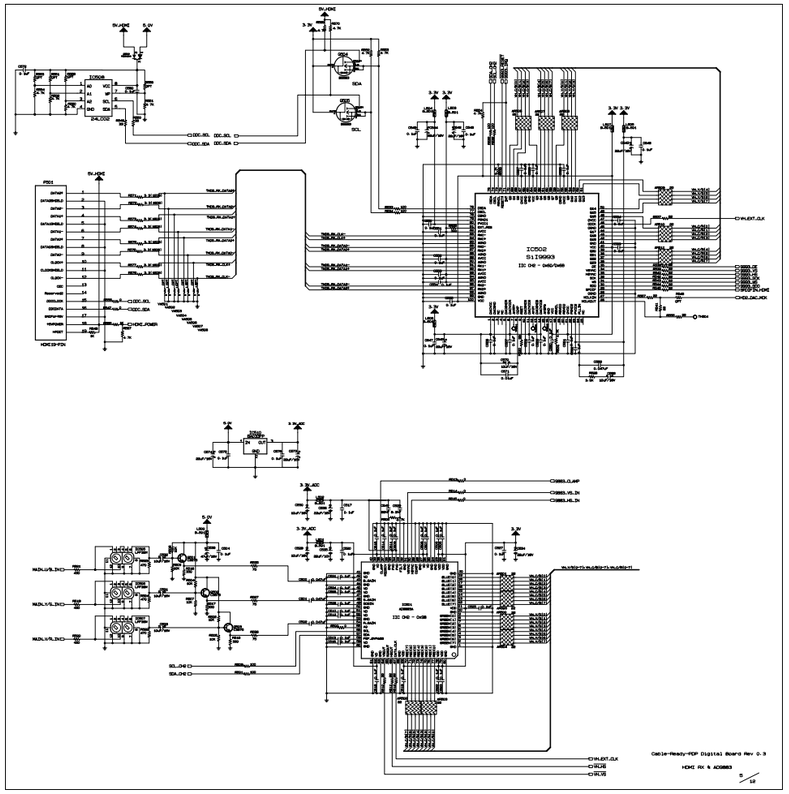
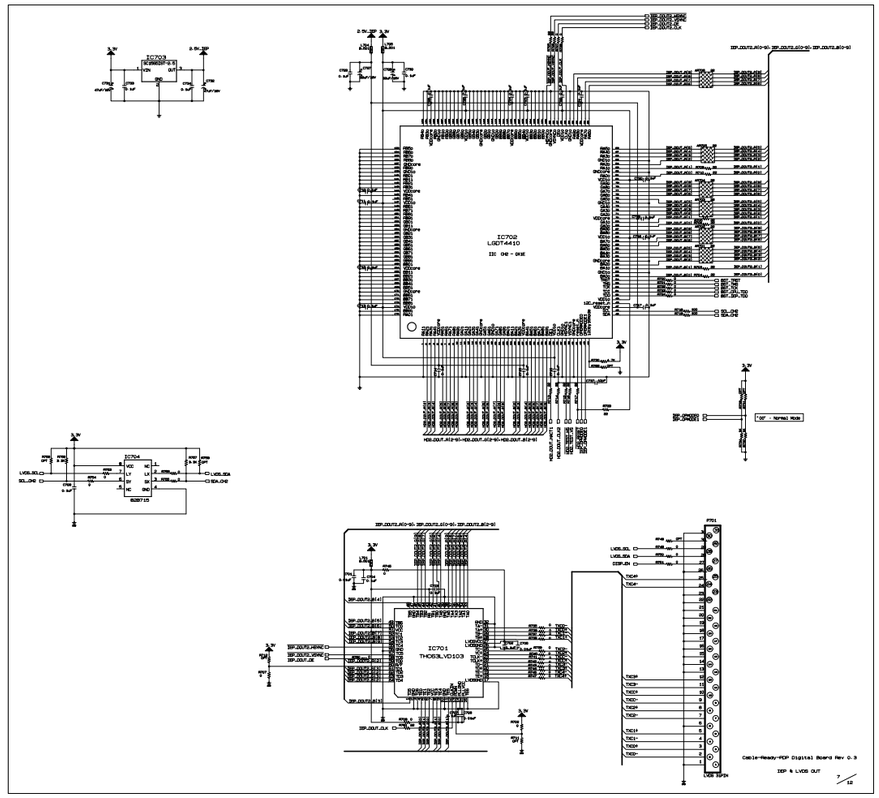
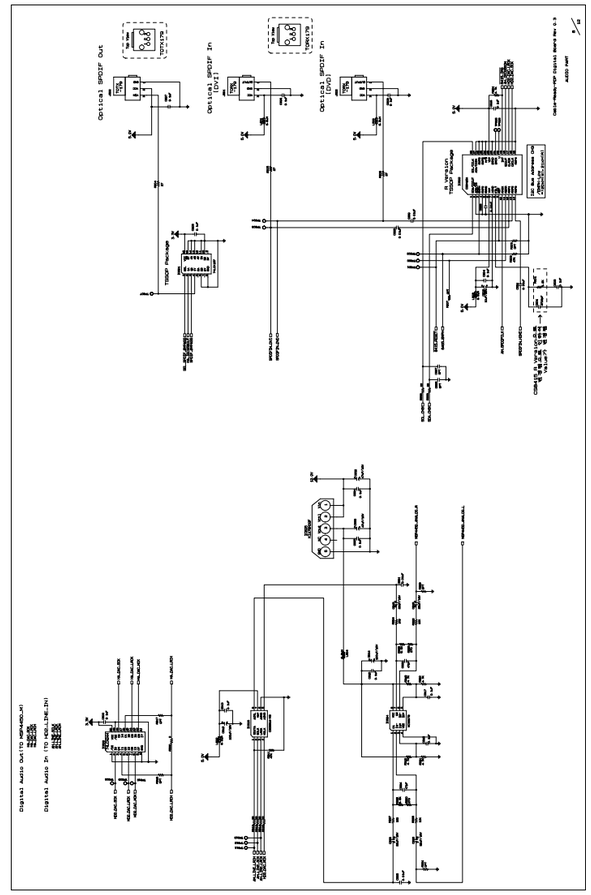
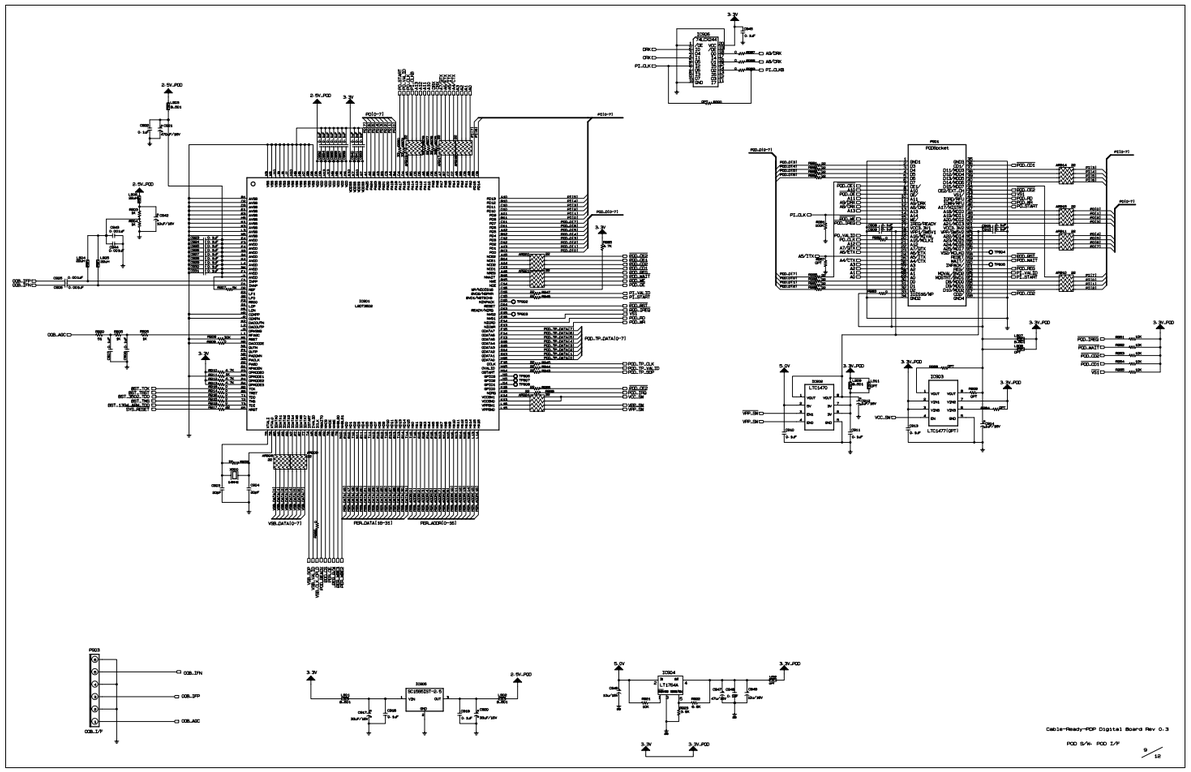

HY57V561620CT
HY57V561620CT
IC207
ST3232CDR
Serial Port
Top View
Cable-Ready-PDP Digital Board Rev 0.3
FLASH-DRAM-OPLD-I2C-SERIAL
2
12

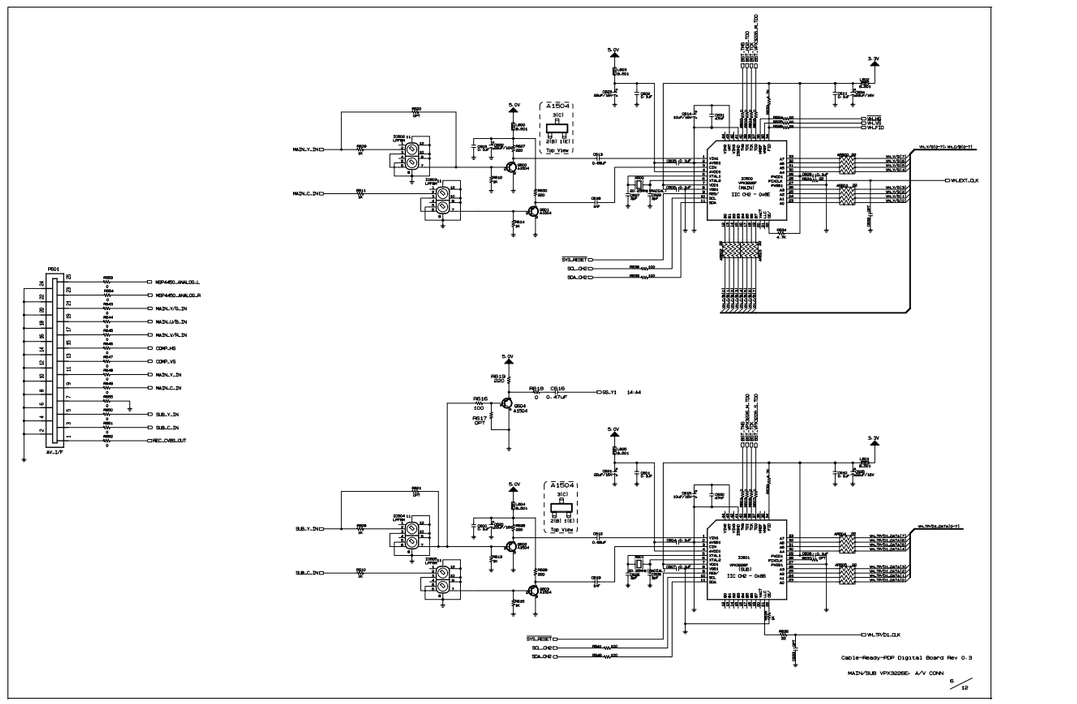

HD-2 Memory
[32MB]
HD-2 PLL Circuit
Debug Only
VCR_REC_OUTPUT
Cable-Ready-PDP Digital Board Rev 0.3
HD-II MEMORY: DPLL: VCR OUT
4
12

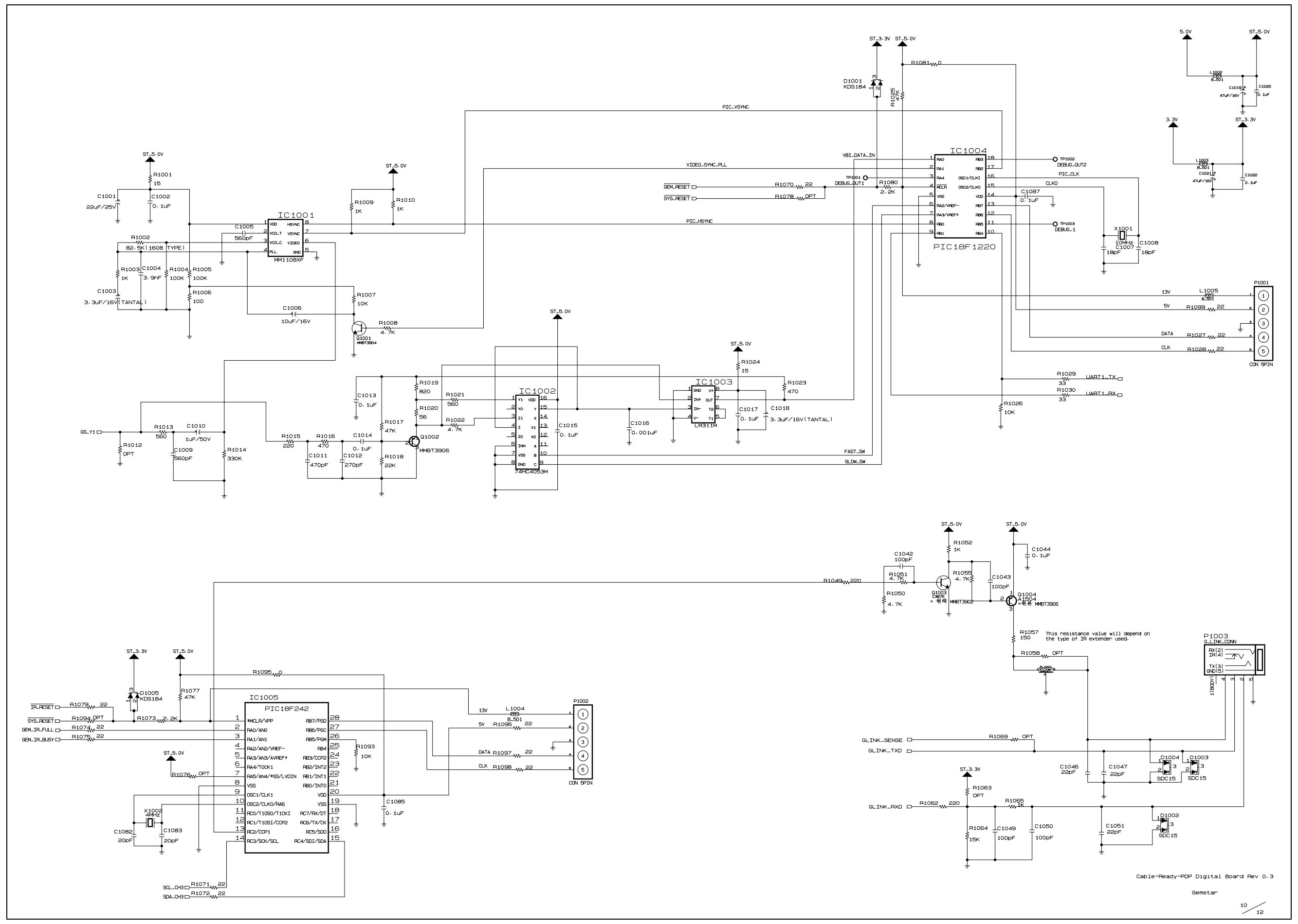

IC502
S1196X63
I2C 0x0 - 0x0/0x68
IC503
I2C 0x0 - 0x58
Cable-Ready-PDP Digital Board Rev 0.3
HDMI RX & ADS883
8
12

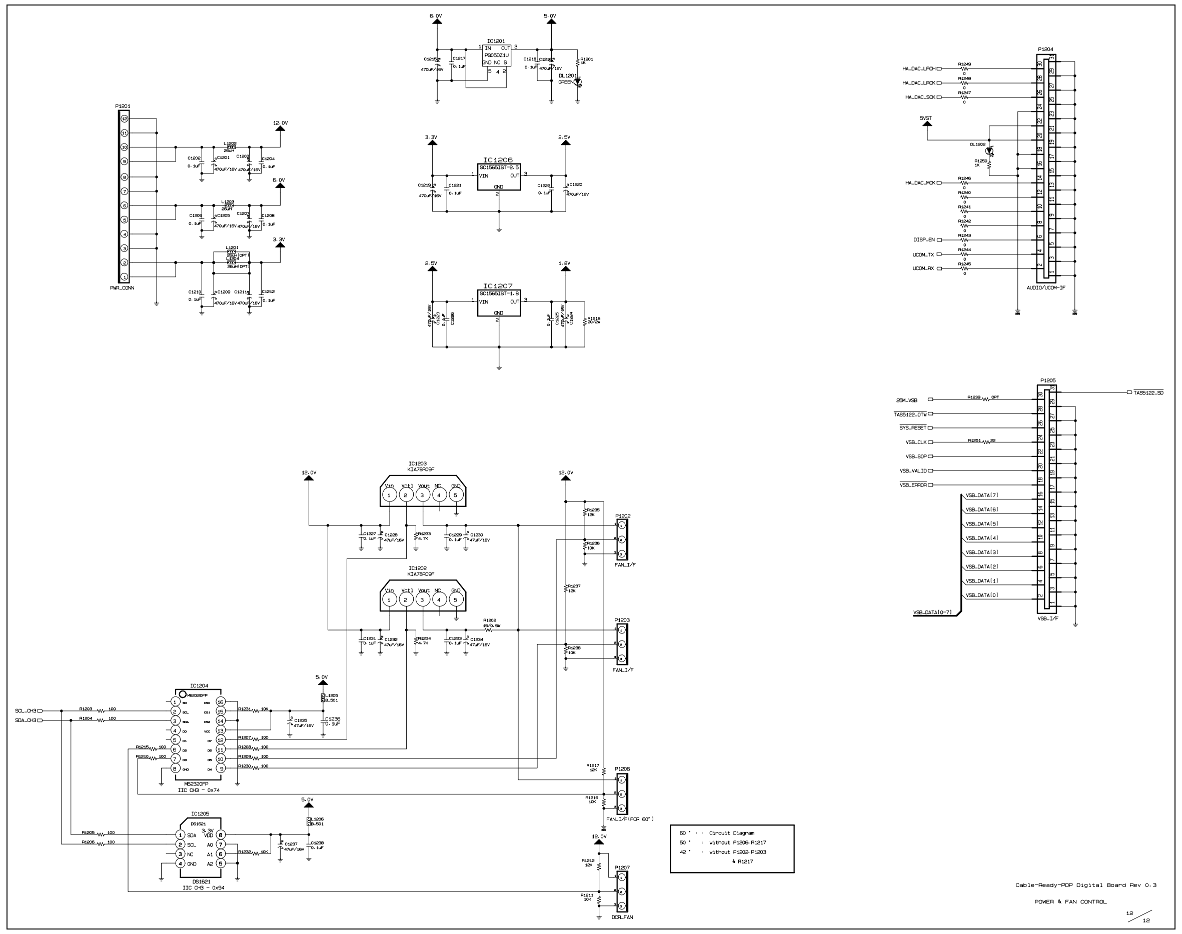

IC709
LSI
I2C 0x0 - 0x2
IC701
THC63LVD103
Cable-Ready-PDP Digital Board Rev 0.3
DEP & LVDS OUT
7
12

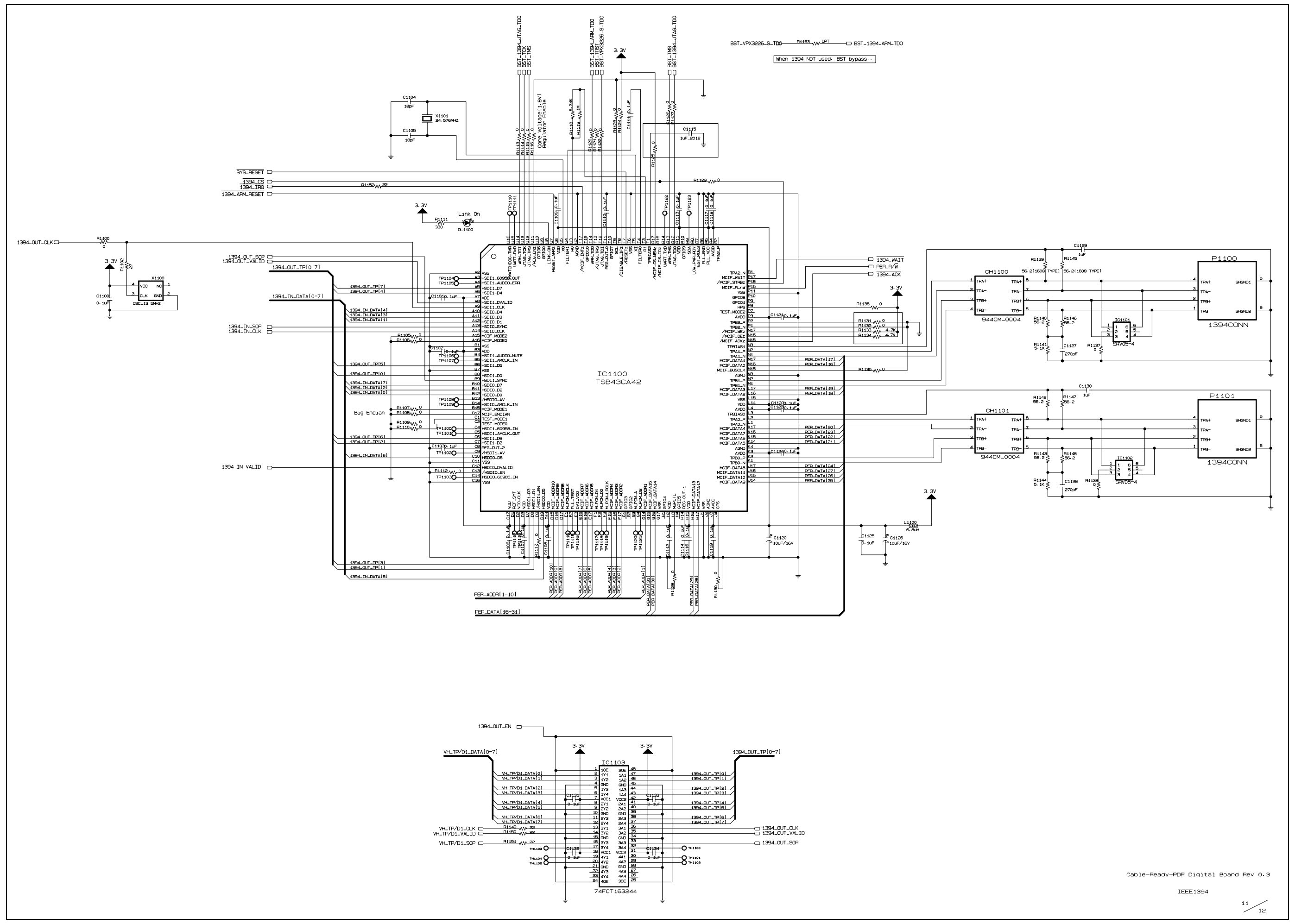

Optical SPDIF Out
Optical SPDIF In (TV)
Optical SPDIF In (DVD)
Digital Audio Out(TO HDMI-RX)
Digital Audio In (TO HDMI-LINE-IN)
Cable-Ready-PDP Digital Board Rev 0.3
AUDIO PART
1
12

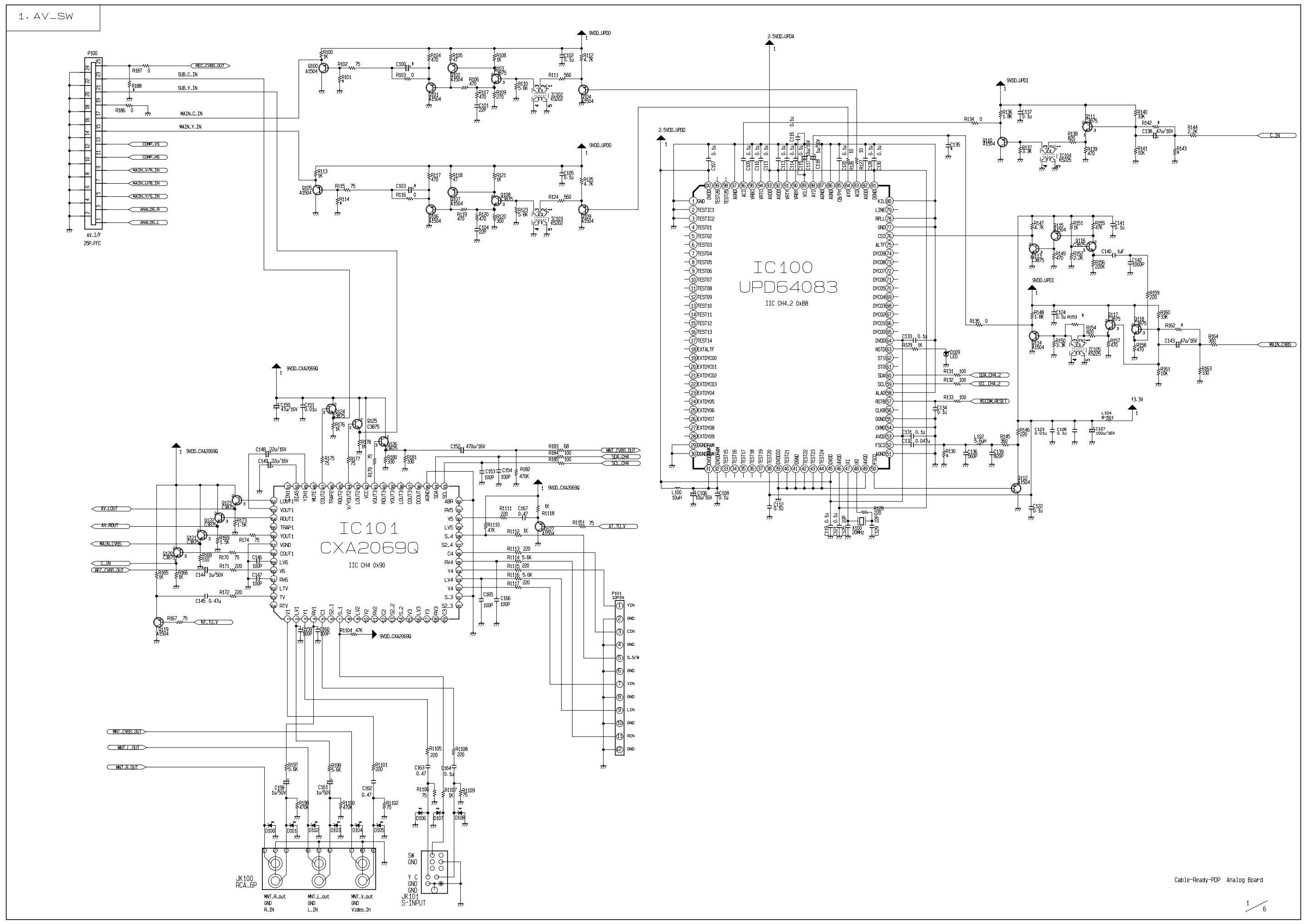

IC501
I2C 0x0 - 0x68
IC504
I2C 0x0 - 0x80
Cable-Ready-PDP Digital Board Rev 0.3
POD S/W, POD I/F
9
12

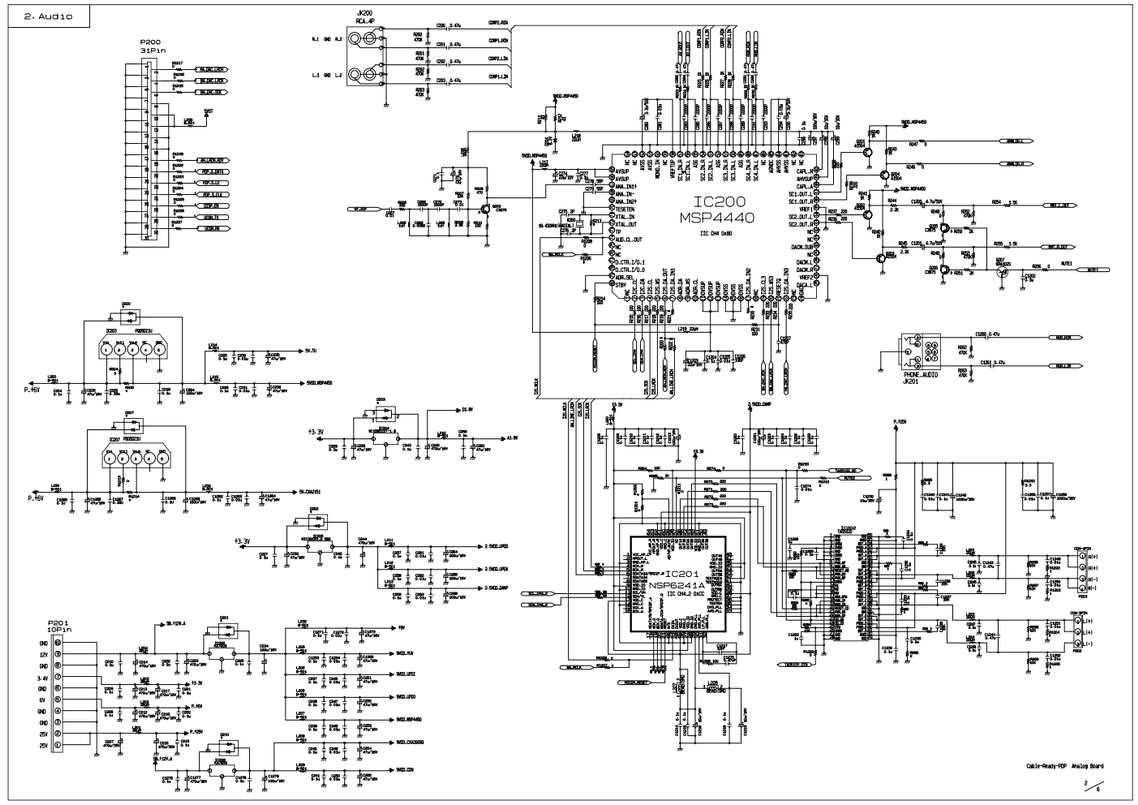

A1504
IC501
I2C 0x0 - 0x80
Cable-Ready-PDP Digital Board Rev 0.3
MAIN/SUB VPX3226E A/V CONN
6
12

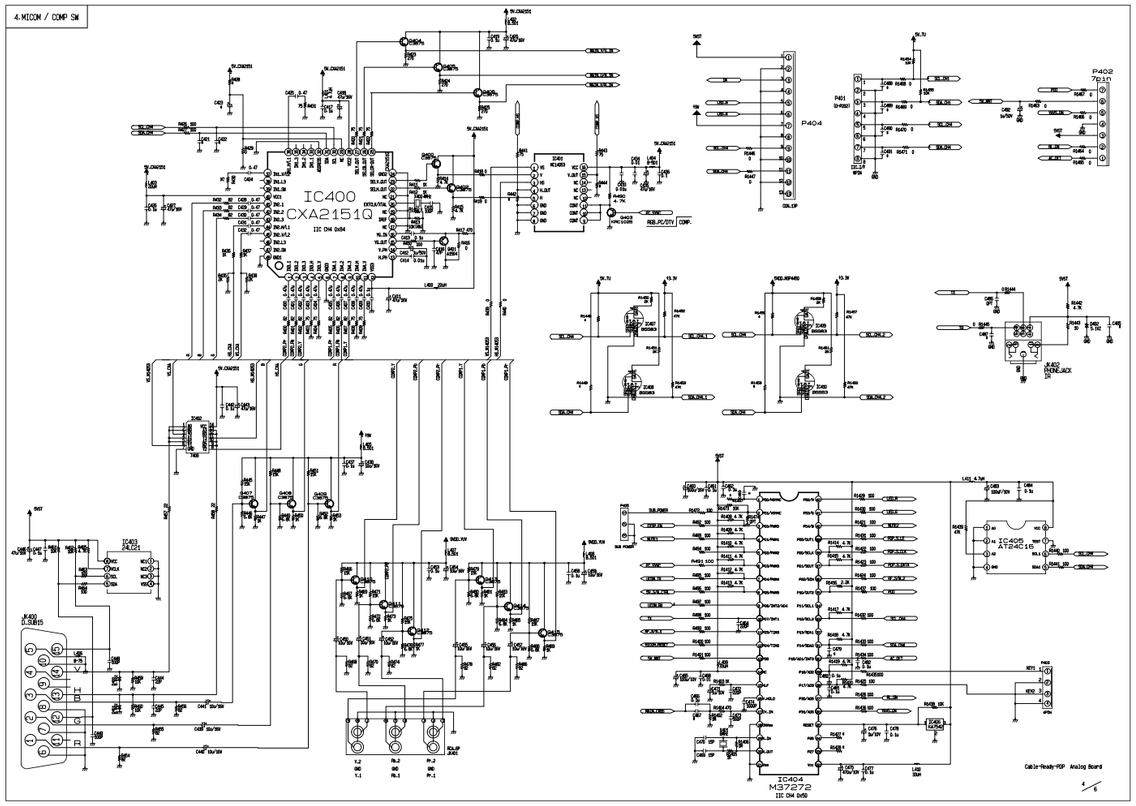

IC1001
MM1108XF
IC1002
74HC4053M
IC1003
LM311M
IC1004
PIC18F1220
IC1005
PIC18F242
P1001
CON 5PIN
P1002
CON 5PIN
P1003
G_LINK_CONN
This resistance value will depend on the type of IR extender used.
Cable-Ready-PDP Digital Board Rev 0.3
Gemstar
10/12

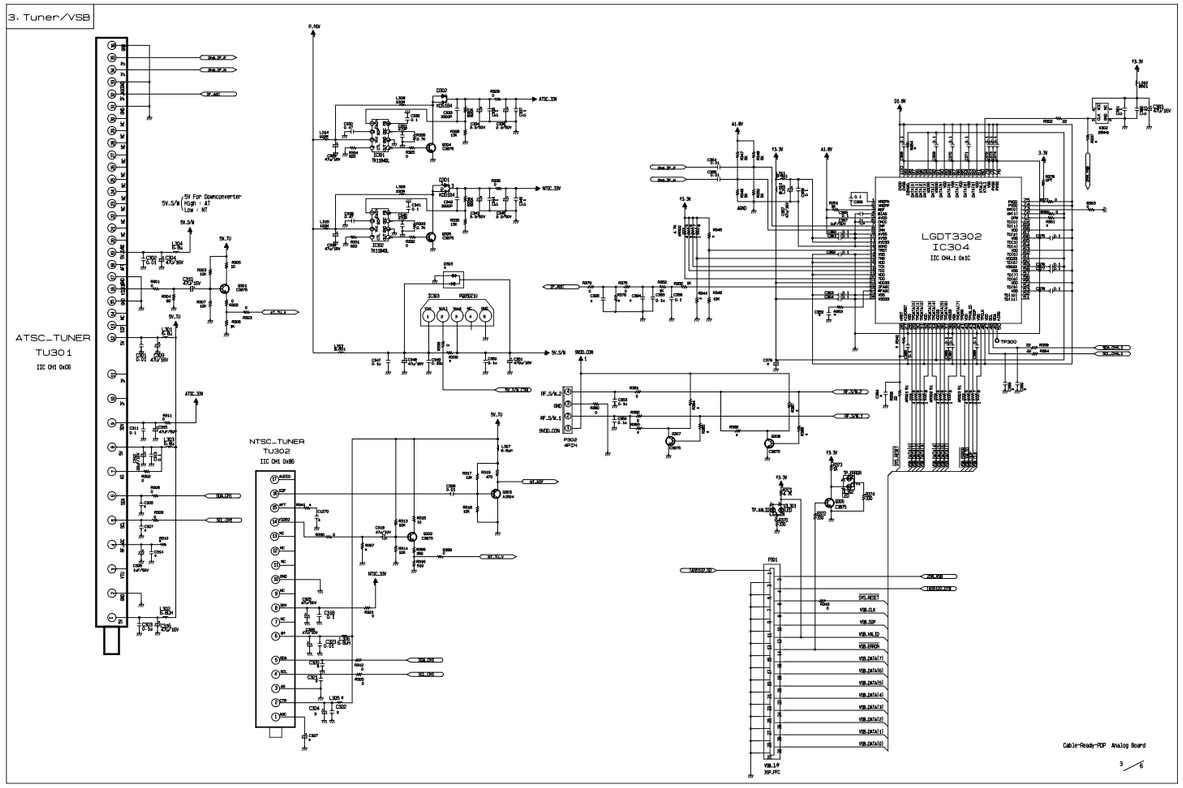

P1201
PWR_CONN
IC1201
PQ05DZ1U
IC1206
SC1565IST-2.5
IC1207
SC1565IST-1.8
IC1203
KIA78R09F
IC1202
KIA78R09F
IC1204
M62320FP
IIC CH3 - 0x74
IC1205
DS1621
IIC CH3 - 0x94
P1202
FAN_I/F
P1203
FAN_I/F
P1206
FAN_I/F(FOR 60")
P1207
DCR_FAN
P1204
AUDIO/UCOM-IF
P1205
VSB_I/F
60" : : Circuit Diagram
50" : without P1206,R1217
42" : without P1202,P1203
& R1217
Cable-Ready-PDP Digital Board Rev 0.3
POWER & FAN CONTROL
12/12

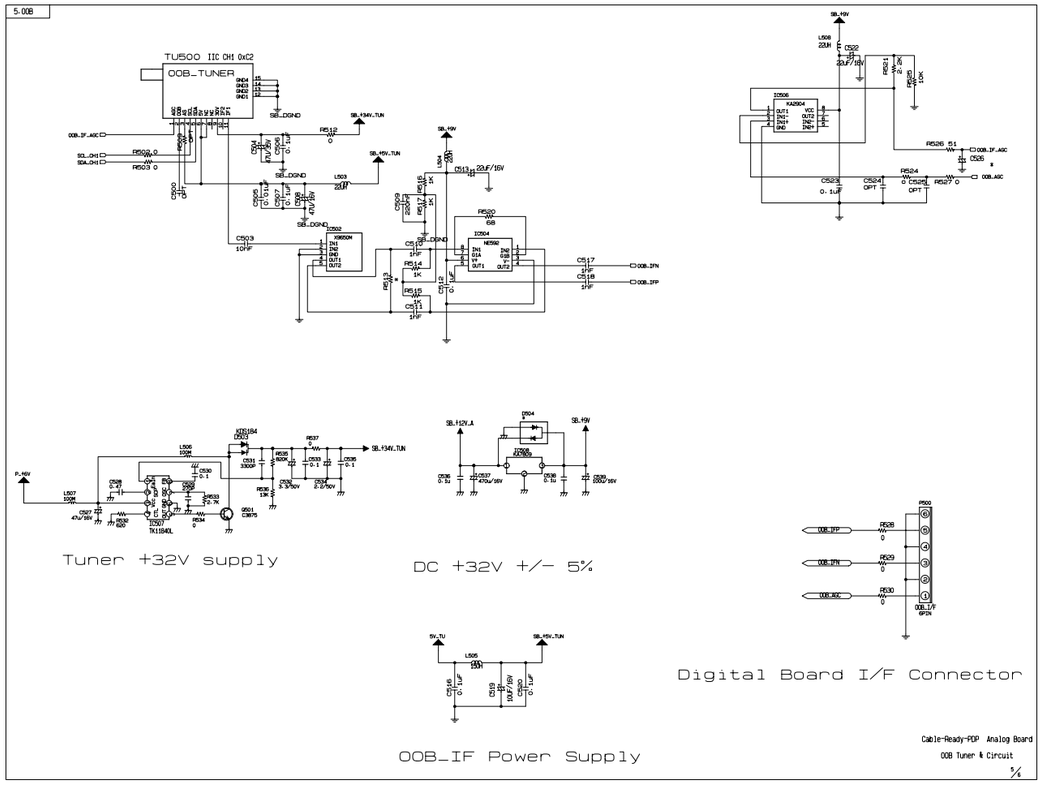

IC1100
TSB43CA42
CH1100
944CM_0004
CH1101
944CM_0004
P1100
1394CONN
P1101
1394CONN
IC1103
74FCT163244
X1100
OSC_13.5MHz
When 1394 NOT used, BST bypass..
Big Endian
Cable-Ready-PDP Digital Board Rev 0.3
IEEE1394
11/12


1. AV_SW
P100
AV_I/F
25P_FFC
IC100
UPD64083
IIC CH4_2 0xB8
IC101
CXA2069Q
IIC CH4 0x90
P101
12PIN
JK100
RCA_6P
JK101
S-INPUT
Cable-Ready-PDP Analog Board
1/6


2. Audio
P200
31Pin
JK200
RCA_6P
IC200
MSP4440
IIC CH4 0x80
IC201
NSP6241A
IIC CH4,5 0x5C
PHONE_AUDIO
JK201
P201
10Pin
Cable-Ready-PDP Analog Board
2 / 6


4.MICOM / COMP SW
IC400
CXA2151Q
IIC CH4 0x84
RGB_PC/DTV COMP.
P404
P402
7pin
P401
12-PIN
IC403
24LC01
IIC CH4 0xA0
M-600
D-SUB15
IC402
AT24C16
IC404
M37272
IIC CH4 0x50
Cable-Ready-PDP Analog Board
1 / 6


3. Tuner/VSB
ATSC_TUNER
TU301
IIC CH4 0x06
NTSC_TUNER
TU302
IIC CH4 0x86
LGDT3302
IC304
IIC CH4,5 0x1C
5V For Downconverter
High : AT
Low : NT
Cable-Ready-PDP Analog Board
3 / 6


5.OOB
TU500 IIC CH1 0xC2
OOB_TUNER
Tuner +32V supply
DC +32V +/- 5%
Digital Board I/F Connector
OOB_IF Power Supply
Cable-Ready-PDP Analog Board
OOB Tuner & Circuit
1 / 1